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# McGraw-Hill Reading Reading Reading



Bothell, WA · Chicago, IL · Columbus, OH · New York, NY

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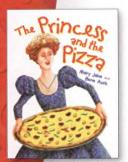
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## Think It Through



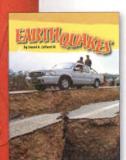
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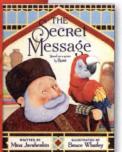
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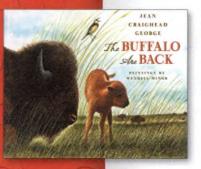
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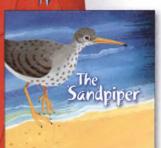


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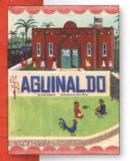


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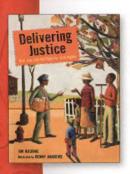
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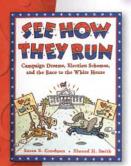
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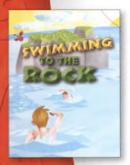


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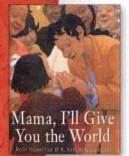


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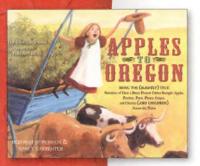


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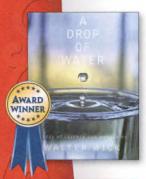
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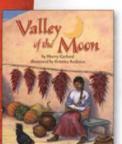
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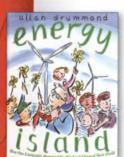


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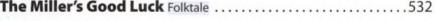


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# The Princess and the Pizza

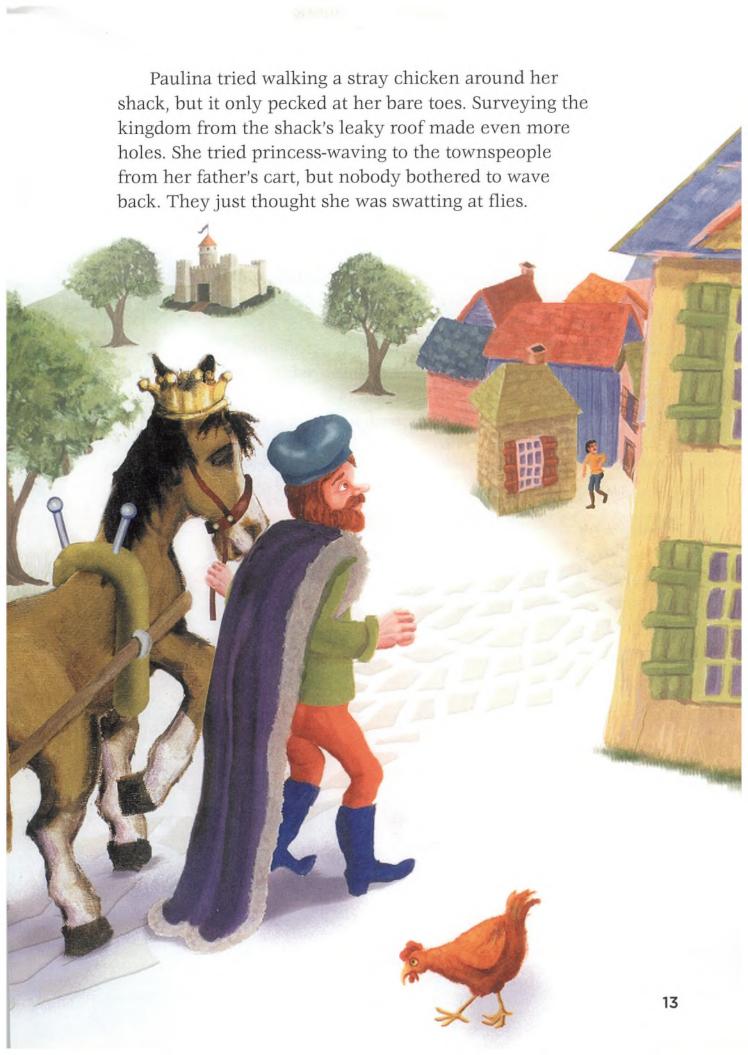
by Mary Jane and Herm Auch **Essential Question** Where do good ideas come from? Read to find out how a princess gets out of a difficult situation. Go Digital!



Princess Paulina needed a job. Her father had given up his throne to become a wood-carver and moved them to a humble shack in a neighboring kingdom. Since the king was still learning, his carvings didn't sell, and Paulina's garden barely kept enough on the table.

Paulina missed princessing. She missed walking the peacock in the royal garden, surveying the kingdom from the castle tower, and doing the princess wave in royal processions.





One day, a page rode past the shack, announcing that Queen Zelda of Blom was seeking a true princess to become the bride of her son, Prince Drupert.

"This is my chance to get back to princessing," Paulina cried. She rummaged through her trunk of ex-princess stuff, brushed the wood shavings from her best ball gown, and blew away the bits of sawdust that clung to her diamond tiara. Then she tucked a piece of garlic into her bodice for good luck, snipped some fragrant herbs to cover up the garlic smell, and headed for the castle.

Paulina didn't expect much competition. There wasn't another princess for hundreds of miles. But when she got to Blom Castle, Paulina found she was only one of twelve princesses hoping to become the royal bride.





When she looked into her assigned room, Paulina saw her bed piled with sixteen mattresses. "Oh, for Pete's sake. The old princess-and-the-pea trick. That's so once-upon-a-time." Naturally, Paulina didn't sleep all night because she felt the lumpy pea through all of the mattresses.

When the twelve princesses gathered in the throne room the next morning, the seven who looked brighteyed were sent home. Now only Paulina and four other sleepy princesses remained.

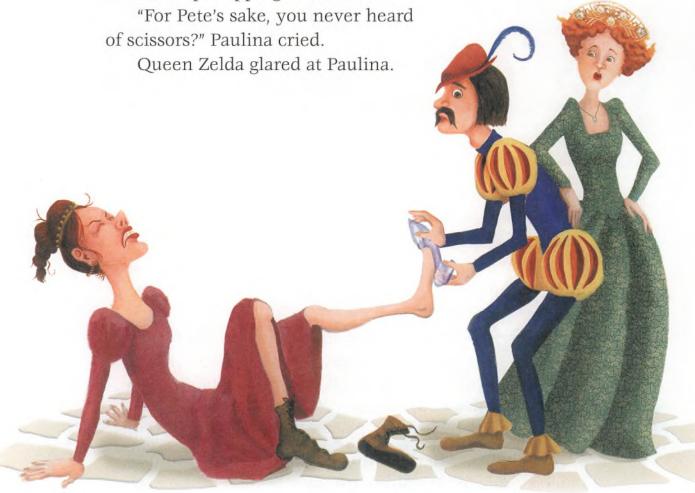
First, they were made to write essays entitled "Why I Want to Have the **Gracious** and Exquisitely Beautiful Queen Zelda for My Mother-in-Law."

Prince Drupert and Queen Zelda finally appeared on the balcony. Queen Zelda did all the talking. "Congratulations, ladies, you have written some lovely essays, which I will keep in my scrapbook. And you have all passed the mattress test. But to make absolutely sure you are of royal blood, there is a second test. Only a true princess can wear these glass slippers."

"For Pete's sake, you never heard of sneakers?" Paulina asked.

Queen Zelda gave Paulina a sharp look. "Nobody said you had to hike in them. Just try them on."

After the royal page made his way around the room with the slippers, two big-footed princesses were sent home. Now only Paulina and two others remained. One was followed around by seven strange little men, and the other had such a long braid dragging behind her, Paulina kept tripping over it.





"You all have passed the second princess test. Your final task is to cook a feast that proves you worthy of being my dear Drupert's wife."

This set up a wail among the princesses, especially Paulina. "For Pete's sake. You have no royal chef?"

"Silence!" said the queen. "The table holds the makings for three fine feasts. Choose well, for the winner will become my dear Drupert's bride."

As Paulina started for the table, the long-haired princess tripped her, then loaded up with food. By the time Paulina got there, the seven strange little men had run off with everything but some flour, yeast, water, three overripe tomatoes, and a hunk of **stale** cheese.

"Hey, that's not fair! Queen Zelda, will you help me?" "No," said the queen. "Because you have a big mouth."

A servant escorted Paulina to her room and locked the door. "Hey! How can I cook without a bowl or spoons or pots?"

There was no reply.

Paulina tried to make bread, kneading the flour, water, and yeast together; but it only stuck to the tray in a **flattened** mess. She squished the tomatoes over the dough to brighten it up. It looked awful. She sprinkled cheese gratings over the top. It was still a mess, and Paulina was exhausted.

"For Pete's sake, where's your fairy godmother when you need her? I'm going to take a nap." She reached under the pile of mattresses, pulled out the offending pea, and climbed into bed.

She hadn't been sleeping long when there was a knock at the door.

"Only twenty minutes left," called Queen Zelda. "I don't smell anything cooking."

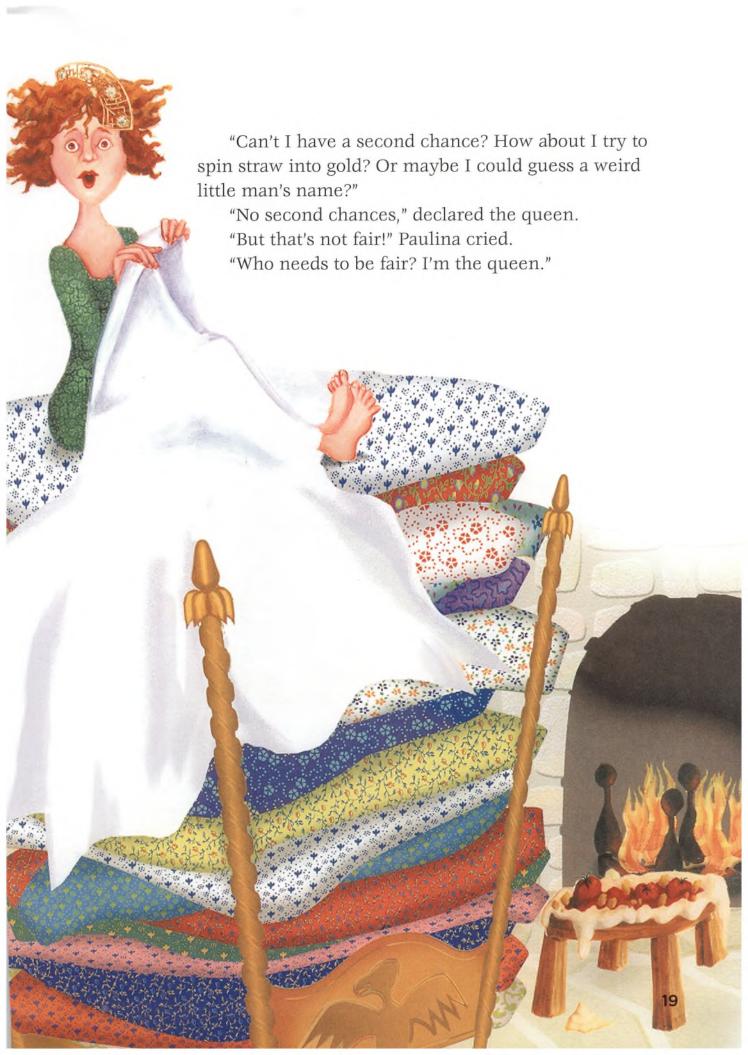
"I'm not cooking," said Paulina. "I'm napping. Then I'm going home."

"You're not going anywhere," said the queen. "The losers will be beheaded."

Paulina sat bolt upright. "Beheaded! You didn't tell us that!"

"I forgot," said the queen.





Paulina leaped out of bed and ran to the window, but it was an unbelievably long drop to the ground. The meal was her only hope. She rushed the tray over to the fireplace, stirred the few remaining hot coals, then crushed her garlic and sprinkled it over the mess for good luck. Finally, Paulina tossed on the herbs to cover up the garlic smell.



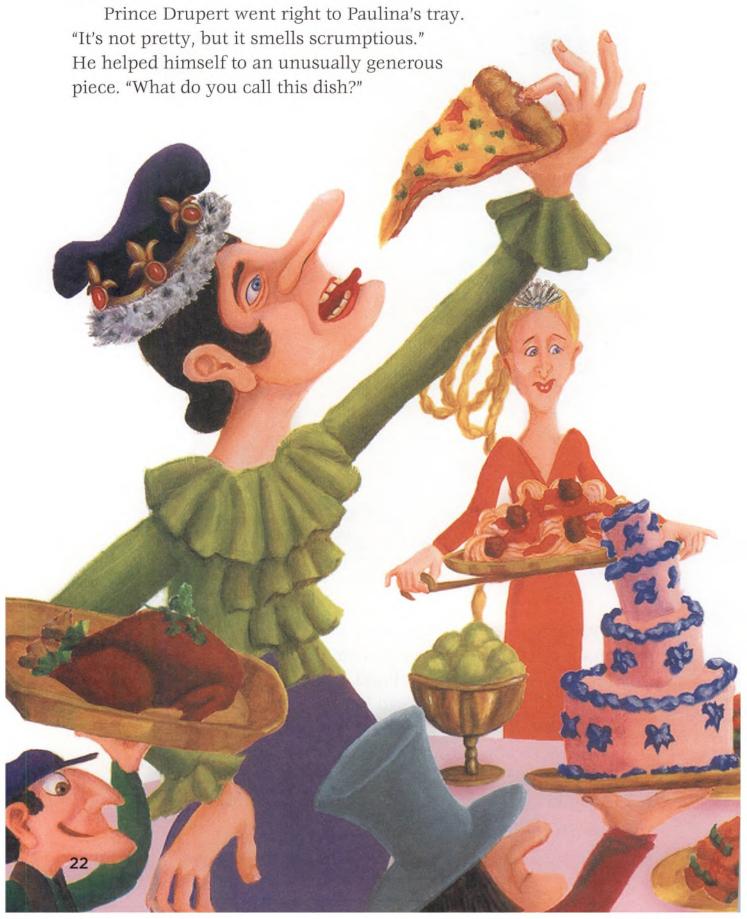


Paulina paced back and forth, planning her escape. Perhaps she could make a deal with the long-haired princess to climb down her braid. She didn't notice that the goopy dough had browned into a crust, the tomatoes were bubbling, the hard bits of cheese had melted, and the fragrance of garlic and herbs filled the room.

A page opened the door. "Time's up."

Paulina took a deep breath and carried her tray into the great dining room.

The other princesses had made lovely feasts, especially the one who had the seven strange little men to help her.



Paulina shrugged. "I don't know."

"It can't be an **official** entry in the contest if it doesn't have a name," said the queen.

"Oh, for Pete's sake," Paulina muttered.

"What's that?" snapped the queen. "Pete's what?"

Remembering the beheading threat, Paulina

**frantically** tried to think of a name. "It's Pete's . . . ah . . ."





"Pizza?" The queen took a big bite. "Odd name, but it's tasty. The winner is Paulina's pizza."

"You mean I won't be beheaded?"

"I was only kidding about the beheading," said the queen.

"Then I was only kidding about wanting to marry Prince Drupert. Who needs him? I have other plans."

"Will you leave your recipe?" asked the queen.

"No way," said Paulina. "It's just become a family secret." She headed for the door.

"I liked you best," whined the queen, following close behind.

"Oh, for Pete's sake," muttered Paulina as she stomped across the drawbridge.

Princess Paulina's Pizza Palace opened a few weeks later. It featured unusual, carved furniture and fifty kinds of pizza.

Every Thursday, on the royal chef's night off, Queen Zelda and Prince Drupert came to Paulina's for popcorn-pineapple pizza. They often stayed to play cards with Paulina's father.

From then on, whenever Paulina drove her pizza delivery cart through town doing the princess wave, everybody waved back and ran after her, asking about the day's specials.

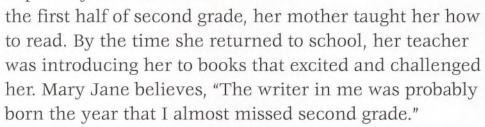
Life was good. Paulina was grateful not to have Queen Zelda for a mother-in-law, but she still worried about one little thing.

She worried about getting Queen Zelda as her stepmother!



# About the Author and Illustrator

Mary Jane Auch and Herm Auch are a wife and husband author-illustrator team. Mary Jane's love for books and art began at an early age. She could always be found sketching characters from her imagination into notebooks. When a polio epidemic kept Mary Jane home from school for



Mary Jane began collaborating with her husband, Herm, after finishing a number of young adult novels. Before then, Herm had spent years working as a graphic artist, editorial cartoonist, and digital artist. He photographs Mary Jane's artistic creations and works on the images in his digital studio.



## Author's Purpose

The Princess and the Pizza is a special kind of fairy tale called a fractured fairy tale. Fractured fairy tales are based on fairy tales you know, but they change the characters, setting, points of view, and/or events, usually for humor. Why would the author choose to write Paulina's story this way?

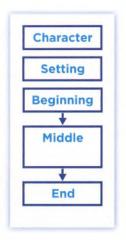
## Respond to Reading

### Summarize

Use your Character, Setting, and Plot Chart to help you summarize the important events in the *The Princess* and the Pizza.

### Text Evidence

- 1. How do you know that *The Princess and the Pizza* is a fairy tale? **GENRE**
- 2. Sequence the settings in the story. SEQUENCE
- 3. When Prince Drupert sees Paulina's dish, he says, "It's not pretty, but it smells scrumptious." What is a synonym for scrumptious? Use context clues to explain how you know. SYNONYMS
- **4.** Write about how Paulina's character changes over the course of the story. **WRITE ABOUT READING**



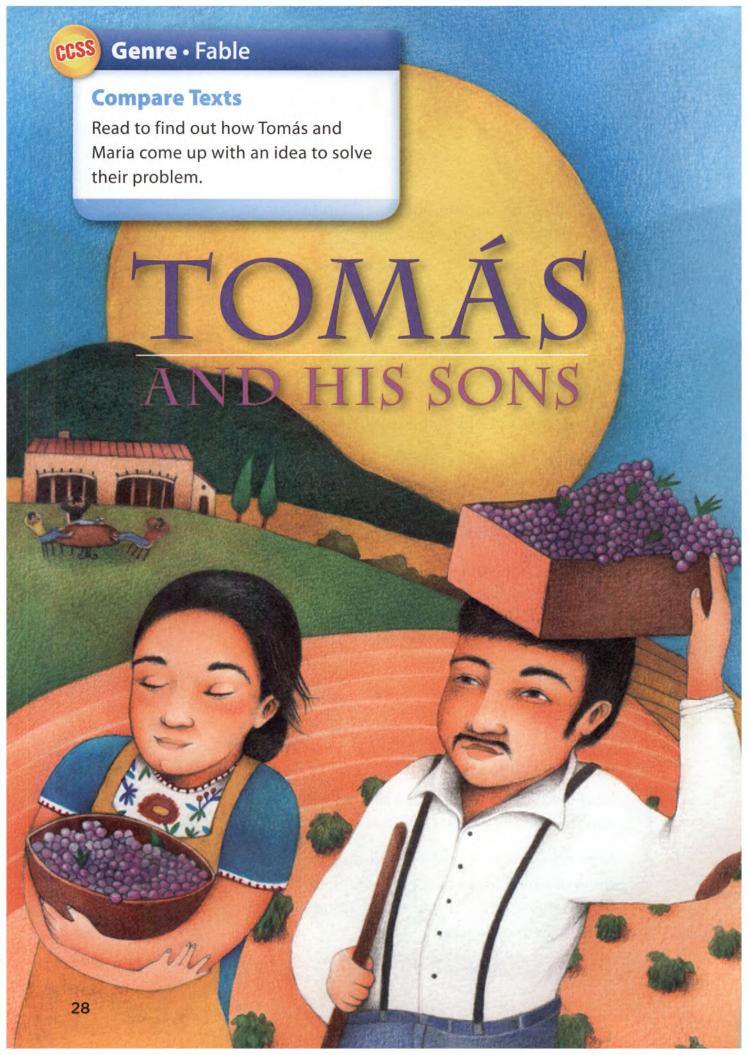


#### **Make Connections**

How did Paulina get out of a difficult situation and win the competition? **ESSENTIAL QUESTION** 

Fairy tales and fables often include characters who think of clever ideas to solve a problem. What can these tales teach us about where good ideas come from? **TEXT TO WORLD** 





omás was a hardworking farmer. His vines produced the best grapes of any vineyard around. "It is the soil, which has been tilled for years," he told people if they asked him his secret. Other times, he said, "Mexico's sun gives the grapes no choice but to grow large and juicy."

Over the years, Tomás's stories became more inventive. But Tomás knew why his grapes were the best. Generations of hard work had kept the land plentiful.

Hard work was something Tomás knew well. But his sons, Eduardo, Miguel, and Luis, were the three laziest boys in all of Mexico.

While their parents tilled the earth under the hot afternoon sun, the boys slept. As the sun bent toward evening, the brothers rose. They stumbled into the kitchen. They filled their plates with eggs and tortillas. By nightfall they were wide awake. Soon, they were off to the village to sing and dance until morning.

Tomás worried about the land. What would happen once he and his wife, Maria, were too old to work? Their sons showed no interest in the vines. Once, Tomás had asked the boys to walk through the vineyard with him. He again told them about their ancestors bringing the vines from Spain.

"These vines tell our family's story," Tomás said. But he knew his words were lost on the boys. The farm's success was not as exciting as last night's fiesta.

One afternoon, under the calabash tree, Tomás brought his worries to Maria. "What can we do?" Tomás asked. "The vines will perish unless the boys learn to plow the earth." Maria knew the boys valued a warm night under the stars. Why would they want to work in the heat of the day?

"There must be a way to get the boys to plow,"
Maria said. "Let's brainstorm ideas to find one that
will work."

Each day, Tomás and Maria sat under a calabash tree and talked over their problem. One day, when it seemed no original ideas would ever come to them, a gourd fell from the tree. Maria picked up the gourd. Turning it in her hands, she remembered something that had worked in the past.

"Of course, Tomás!" said Maria. "The boys need a purpose, a real reason for doing something. Last year, Luis could not find his gourd drum. His room was a mess. His clothes were lying all around. It was not possible to find his bed, much less a small gourd drum! The only way to find his drum was to clean his room."

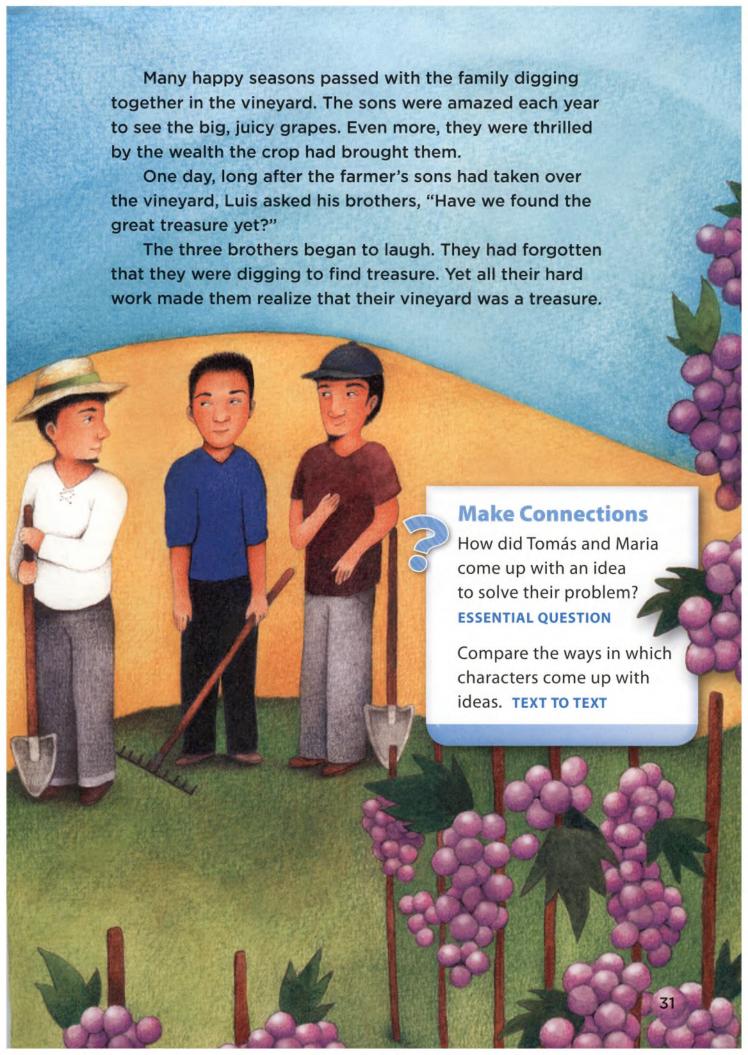
"And did he?" asked Tomás.

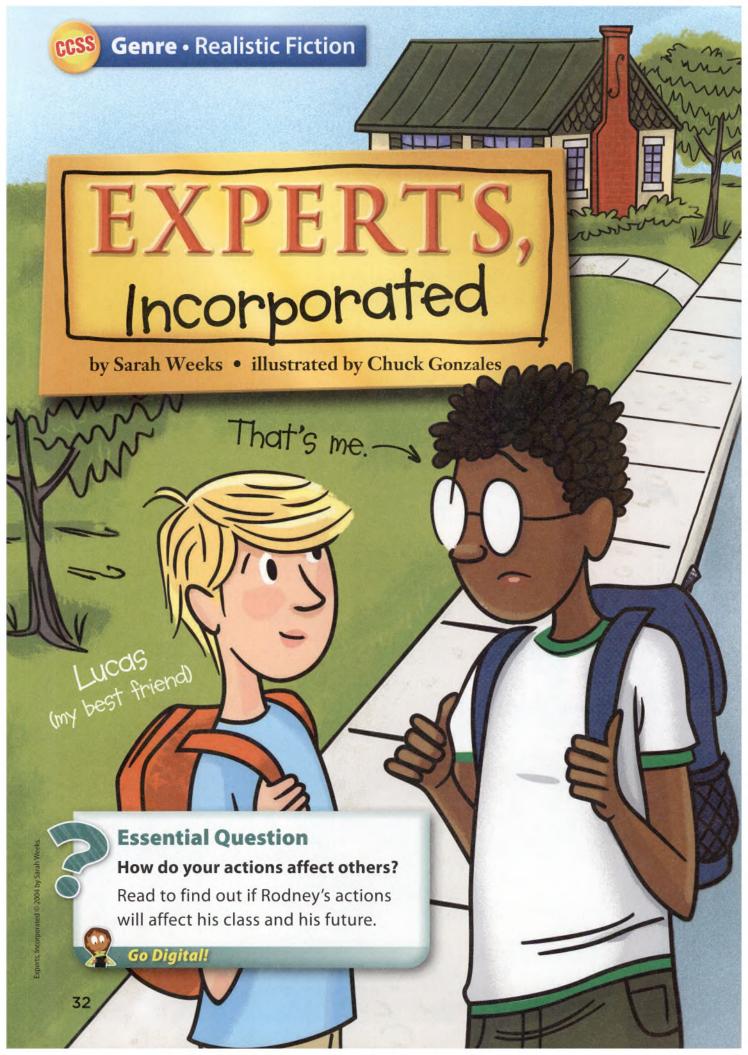
Maria smiled. "He did. Once he had cleaned, Luis found his great treasure buried under a pile of shirts."

Tomás thought about this. "Maria," he said after a while, "what if the boys believe a treasure is buried in the vineyard? Would they dig to find it?"

"I think that's just the motivation they need," Maria said.

The next day Tomás told his sons he had been keeping a secret. "When our ancestors brought the vines to this land, they also brought a great treasure. I believe it is buried in the vineyard. For years I have tilled the earth to find it. We will be rich beyond belief once it is found." Right away his sons declared they would help Tomás find the treasure.







There are three things in this world I can't stand—cucumber salad, wool sweaters, and creative writing. Cucumbers make me burp and wool makes me itch, but if you gave me a choice, I would rather burp and itch at the same time than have to write something creative.

"You finished your essay, right, Rodd-o?" my friend Lucas asked me as we walked toward school together early one morning.

I **hesitated**. Lucas is my best friend and we always shoot straight with each other.

"Yeah, I finished it," I said.

"Phew, that's a relief," he said.
"If you hadn't, I would never forgive you, you know."

"Yeah, I know," I said.

The problem began on the first day of the school year when our humanities teacher, Mrs. Greenberg, promised that if nobody got an F in her class all semester she would give us a pizza party.

"Just remember," she'd laughed, "there are no F's in pizza."

Here it was, the last week of the semester and I was about to earn not just an F, but the F that would ruin everything. Because, you see, I hadn't done the assignment. Not one word of it.



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#### STOP AND CHECK

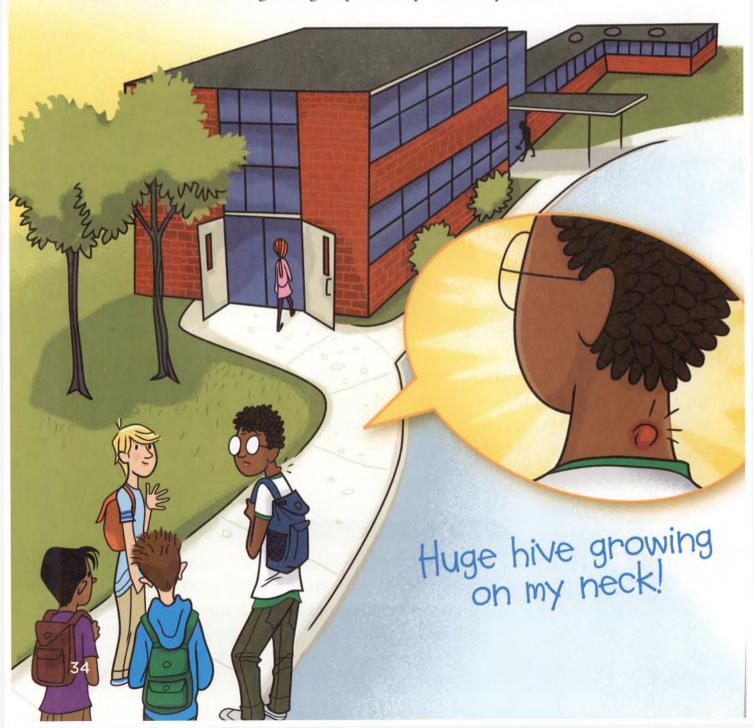
**Make Predictions** Use what you have read so far to make a prediction about whether or not Rodney will complete the assignment.

As we rounded the corner and headed up the block toward school, Jeremy and Russell, two friends from our class, caught up with us.

"You guys did the assignment, right?" Russell asked us. "Yep," Lucas answered for us both. "How about you?"

"Of course," said Jeremy. "What do we look like, idiots? I can taste that pepperoni already. Last year's class got the party and somebody told me she let them have all the soda they wanted too."

When I get nervous, I sometimes get hives on my neck, and I could feel one beginning to prickle up under my collar.



"What profession did you pick?" Lucas asked.

"Doctor," Jeremy said. "'Cause they get to save people and stuff."

"I picked truck driver," said Russell. "They get to travel and eat at diners. I love diners, but my mom says they're too greasy, so we never get to go. What about you, Lucas?"

"Star pitcher for the New York Yankees," he said. "Man, can you imagine getting paid to play baseball?"

The assignment had been to write an essay about what you want to be when you grow up. Sounds easy enough, unless you're like me and have no idea what you want to be, and no matter how hard you try, you can't think of even one thing that feels the least bit right.

"I bet all the girls are going to say they want to be teachers 'cause they know Mrs. Greenberg will eat that up with a spoon," Russell said with disgust.

"Yeah, probably," Lucas agreed. "So, what did you pick, Rodd-o?" he asked, turning to me.

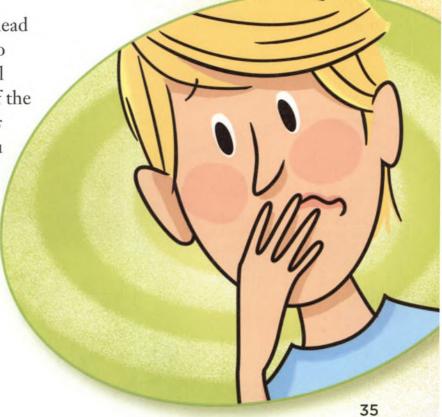
We were just starting up the steps of the school, when a familiar cry went up from the playground.

"Hey look, everybody! There goes Mucus!

Hey, Mucus!"

Lucas blushed and hung his head as we walked up the steps and into the building. It happens to him all the time, poor guy. He has one of the worst names. Not only does *Lucas* rhyme with *mucus*, but even if you shorten it to *Luke*, you're still in trouble because then it rhymes with *puke*. He's been tortured his whole life on account of that name.

Lucas...
guess what his
name rhymes with?

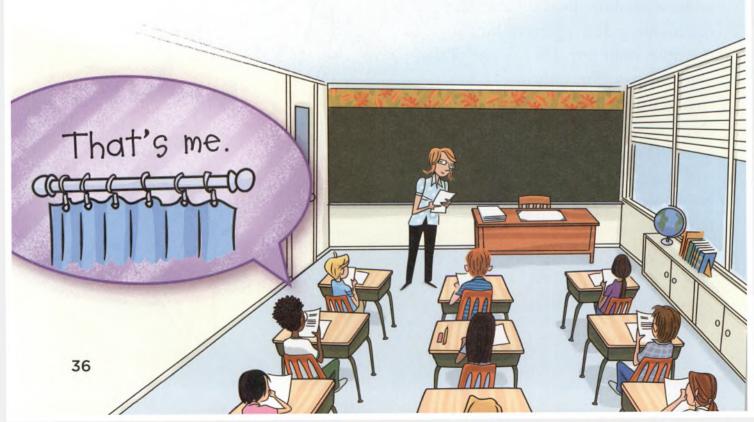


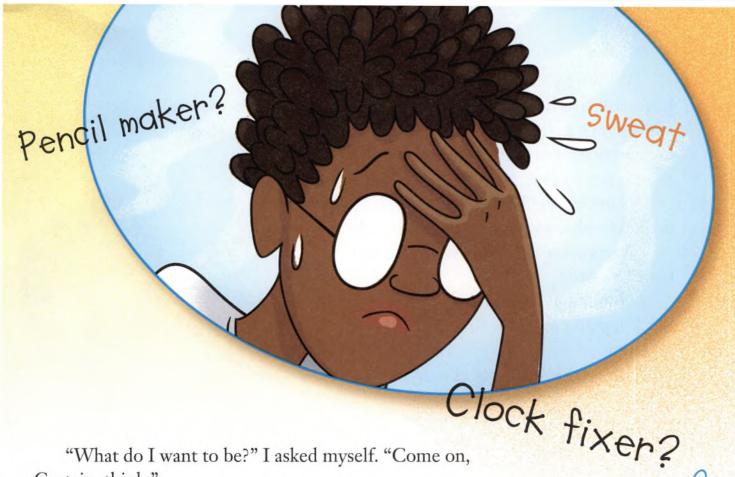
Having a bad name is something Lucas and I have in common and probably part of the reason we became friends all the way back on the first day of kindergarten. My name is Rodney Curtain. My parents and my teachers call me Rod, my friends call me Rodd-o, and my sister, who's only two, calls me Rah-rah. Rodney Curtain may not be the greatest name in the world, but front-ward like that it's not so bad. The thing is, at school when they call out your name for attendance they say it backward. Lucas Bromberg becomes Bromberg, Lucas. Samantha Smith becomes Smith, Samantha.

Unfortunately, I become Curtain, Rod. That's bad.

As we made our way down the hall to homeroom, I felt sorry for Lucas on account of the teasing, but secretly I was relieved that he'd forgotten about the question he'd asked me. How was he going to take it when he found out I hadn't done the assignment?

After she took attendance, Mrs. Greenberg—we have her for homeroom as well as humanities—announced that she would be collecting our papers after lunch. There was still hope left. All I had to do was come up with an idea between now and then, scribble it down in time to hand it in with the others, and maybe I wouldn't have to ruin the party after all. The problem was, I still didn't have any ideas.





"What do I want to be?" I asked myself. "Come on, Curtain, think."

Desk builder? I thought about it during math, history, and science lab, but with lunchtime only minutes away, my mind was still a complete blank. The only thing I could think of that I wanted to be was someone else. Someone who had written the stupid essay already.

As I looked around the room **desperately** hoping to find some **inspiration** somewhere, I asked myself, "Do I want to be a scientist? Do I want to fix clocks? Write books? Build desks? Make pencils?" No, no, no. And then suddenly without warning, everything shifted into slow motion as my eyes came to rest on the face of the girl sitting in the second seat in the third row from the left. That's when it hit me. I knew what I wanted to be. What the world needed me to be.

When the bell for lunch rang, I didn't join the others in the cafeteria.

Instead I took out my notebook and began to write. When the fifth-period bell rang, I was already in my seat in Mrs. Greenberg's room with a stack of four handwritten sheets of paper in front of me and a huge grin on my face.

"Why are you sitting there smiling like a dork?"
Lucas asked as he slid into the seat next to me. "And where were you at lunch anyway? And another thing, you never answered my question from before, what did you choose as your profession?"

"Name expert," I told him happily. "That's definitely what I want to be, a name expert."

"A name expert? Whoever heard of that?" he said.

"Nobody. It hasn't been invented yet. But I'm going to be the first one," I told him.

"Oh, yeah? And what exactly are you going to do?" he asked me.

"I'm going to advise people about what not to name their kids."

"No offense, but that is so dumb. Why would anybody pay you to tell them what not to name their kid?" he asked.

"Because I'm an expert," I said.

"Says who?" he said.

"What's your name?"

"What do you mean, what's my name? You know my name, fish-for-brains." Lucas snorted.

"Come on, just answer the question. What's your name?"

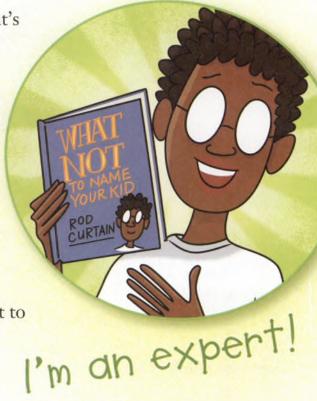
"Lucas," he said.

"And what do all the kids call you?"

He hesitated **uncomfortably** for a second before answering.

"Mucus," he said quietly.

"Exactly," I said. "See? If I had been around when your parents were deciding what to name you, I could have warned them that every name needs to be checked for bad rhymes. A kid named Leo is gonna end up getting called B.O., anybody named Gabby is gonna get called Flabby, it doesn't take a rocket scientist to figure that out. Your name is particularly bad, because it's a double whammy."



"Tell me about it," said Lucas, shaking his head sadly.

"The way I see it, a name expert should be hired every time a baby gets born, to protect it from being saddled with a name that could ruin its life," I went on.

"How much do you think you'll get paid?" he asked.

"A lot. Parents pay a bundle for braces to straighten their kids' teeth. Don't you think they'd shell out even more to save their kids from being **humiliated** at school?"

"Here's a question for you—do you think there's any way a name expert could figure out whether a name is going to fit when the kid gets older?" Lucas asked me.

"What do you mean?" I said.

"Well, for instance, you know how Melody Adams is tone-deaf?"

"Yeah, she sings like a moose," I said.

"If her parents had known she was going to be unmusical, maybe they wouldn't have given her a musical name like Melody."

"Maybe they would have named her Moose," I said. We both laughed.



#### STOP AND CHECK

Confirm Predictions Why does Rodney want to be a name expert? Confirm or revise your prediction about Rodney.



"I suppose a name expert could be trained to look carefully at the parents for signs of what's to come," I said. "Like for instance, if there's a history of baldness in a family, it's probably not a very good idea to use the name Harry."

"Yeah, or like if the parents have big noses they shouldn't name their kid Honker," said Lucas.

"Who names their kid Honker?" I said. "That's not even a real name."

"Oh, and Curtain Rod is?"

I punched him in the arm, but not too hard because like I said, we're best friends.

"Hyphenated names would have to be looked at very carefully too, don't you think?" Lucas said. "Like Jessica's, for instance."

"Exactly," I said. "She's the one I was looking at in science lab when this whole idea came to me."

Jessica's dad's name is Charlie Mintz and her mom's name is Sylvia Pepper.

How hard could it have been to name her Jessica Mintz-Pepper instead of Jessica Pepper-Mintz? If they'd had a name expert around, trust me, it never would have happened.

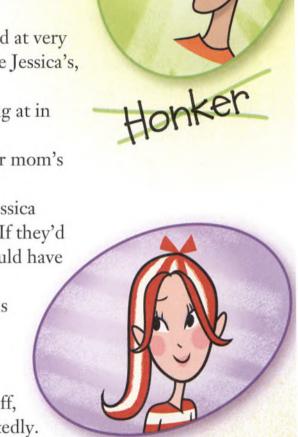
"You know, I take back what I said about this idea being dumb," Lucas said. "I think maybe you're onto something big here."

"Yeah? You think?" I said.

"Yeah. And you know, once business takes off, you might even need a partner," Lucas said excitedly. "We could call it Experts, Incorporated."

"We?" I laughed. "I thought you were going to pitch for the Yankees."

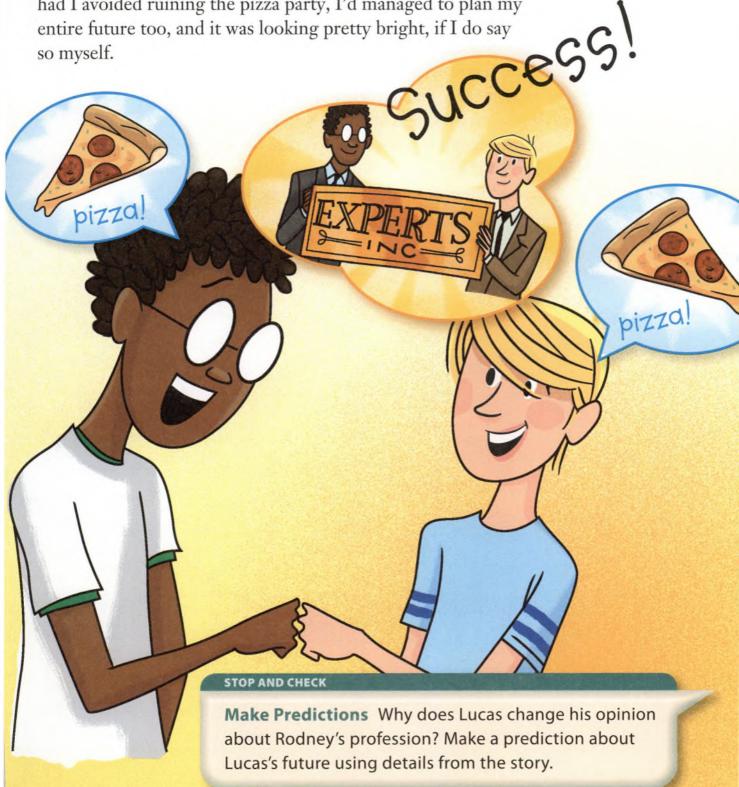
Lucas smiled and shrugged.



Harry

"I doubt I'll get picked up; I can't even throw a slider. But if you want a partner who really understands why the world needs name experts, I'm your man, Rodd-o."

Mrs. Greenberg came down the aisle collecting the papers. As I handed her mine, I heaved a huge sigh of relief. Not only had I avoided ruining the pizza party, I'd managed to plan my entire future too, and it was looking pretty bright, if I do say

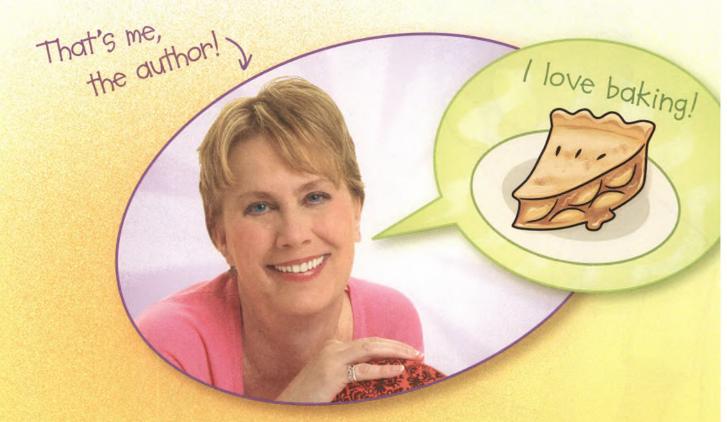


# About the Author

# SARAH WEEKS, Incorporated

For **Sarah Weeks**, the best thing about writing is that she gets to spend all day doing what she enjoys most. Sarah prefers writing books about things she knows or has experienced. She has written about animals and the environment as well as about kids and their experiences.

When Sarah is not writing picture books or novels, she loves to bake, watch movies and little league games, and spend time with family and friends. She also visits classrooms around the country to talk about her stories.



#### Author's Purpose

The author uses a lot of dialogue in *Experts, Incorporated*. How does the dialogue make the story more realistic?

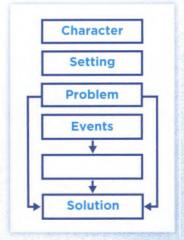
# Respond to Reading

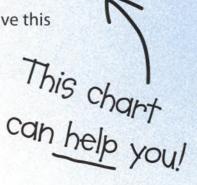
#### Summarize

Use details from *Experts, Incorporated* to summarize what happened in the story. Information from your Problem and Solution Chart may help you.

#### Text Evidence

- **1.** How do you know that *Experts, Incorporated* is realistic fiction? **GENRE**
- 2. What is Rodney Curtain's main problem in the story? What will happen if he cannot solve this problem? PROBLEM AND SOLUTION
- **3.** On page 33, Rodney says that he and Lucas "always shoot straight with each other." What is the meaning of the idiom "shoot straight"? Use context clues to help you figure out the meaning. **IDIOMS**
- Write about how Rodney resolved his problem. WRITE ABOUT READING





#### **Make Connections**



How did Rodney's actions affect others in this story?

ESSENTIAL QUESTION

Rodney saw a real-world problem in his school and turned it into a future career. Make a list of jobs in which people make a difference or solve problems. Talk with a partner about why people might do these special jobs. **TEXT TO WORLD** 

#### **Compare Texts**

Read to find out about how people are standing up to bullying.

# speaking out to SMAN INC. SMAN INC. SMAN INC. Bullying.



Victims of bullying often feel powerless, or unable to do anything about their problem.

# Raising the Issue

One of the toughest issues facing students today is bullying. Bullying occurs when a person uses aggressive behavior to hurt others on purpose. Acts of bullying often happen over and over. The victim usually feels powerless. A bully's power may stem from being older, bigger, or stronger. Bullies may also seem to have more friends or resources than the person they target.

Bullying comes in many forms. Calling someone names or teasing them can be a form of bullying. Other forms include spreading stories that aren't true about a person. Some bullies hurt people by ignoring them or leaving them out. They may also hurt their victims by shoving, hitting, or kicking. Bullying can take place anywhere, even in cyberspace. Victims may be targeted online, in e-mails, or over cell phones.



Students should report any signs of bullying to an adult they trust.

How can students stop bullying from becoming a problem? The most important thing students can do is to tell a trusted adult when they are bullied. The same strategy applies if they see someone else being bullied. Power can also be taken away from bullies by ignoring them, agreeing with them, or using humor. Participating in anti-bullying programs may help resolve bullying issues.

#### **Communities Take a Stand**

New Hampshire passed a law to stop bullies. The law states that all school staff must be trained to know what bullying looks like. People learn to spot the signs of bullying. The law tells people who see bullying to report it. The state hopes that the law will create bully-free schools.

In Midland, Texas, the police take their message to the schools. Police officers make sure to tell students that bullying can be a crime. They want bullies to know that they are accountable for what they do. This means that bullies will be punished if they are caught. The officers tell students who have been bullied or who have seen bullying to report it right away. They make it clear that people have choices. They tell students that anyone can choose to stop being a bully.



Left, Julia Kordon talks to students about how to stay safe from online bullying.



Television actress Lauren Potter speaks out about bullying of specialneeds students.

# Young People Speak Out

Julia Kordon from Phoenix, Arizona has a message for students. When she was 13, she started a group called The Bullying Ends Now. Julia wants all schools to be safe and fun. She travels all over the state talking to young people. She tells them how hurtful words can lower a person's self-esteem. Julia asks students to share their stories online. She wants people to stand up for others.

Actress Lauren Potter has a message for lawmakers. She has been speaking out about the bullying of special-needs students. Lauren was born with Down Syndrome. Because she did not look like her classmates, she was teased and called names as a child. She wants laws that will keep people safe from bullies.

# Learning to Speak Up

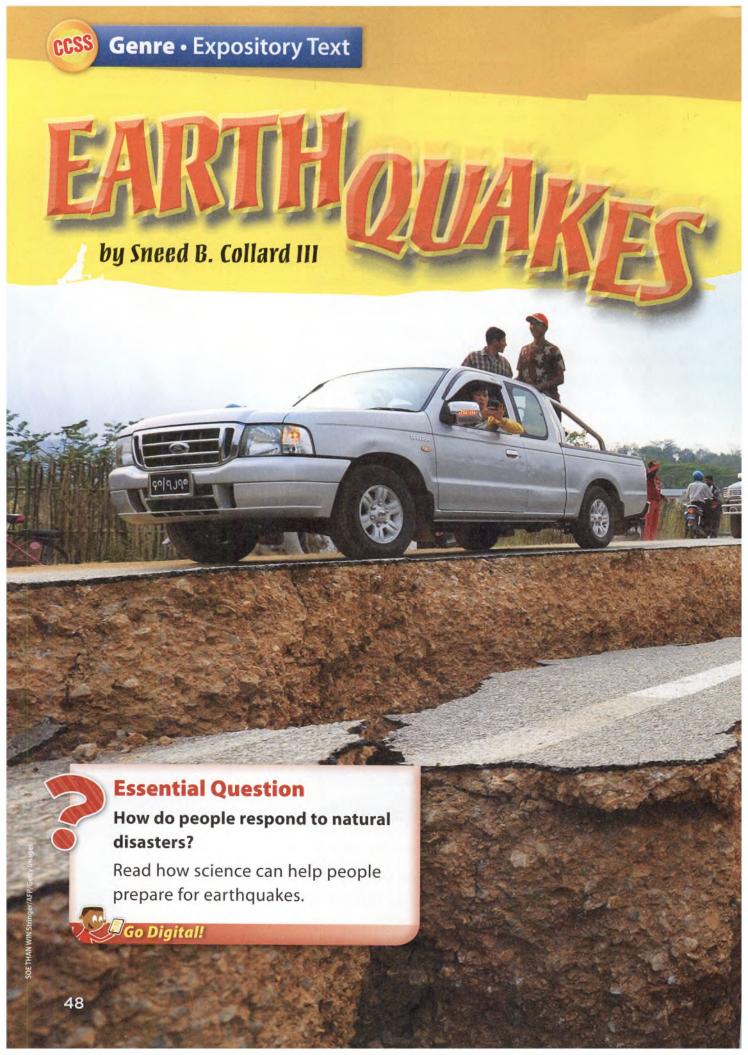
It is important for people everywhere to recognize and stand up to all forms of bullying. Everyone has a right to feel safe and to be treated with respect. Likewise, each person has a responsibility to treat others with respect. Report anything that may get in the way of maintaining a safe environment.

#### **Make Connections**



How are people standing up to bullying? **ESSENTIAL QUESTION** 

In what ways do actions make a difference? TEXT TO TEXT





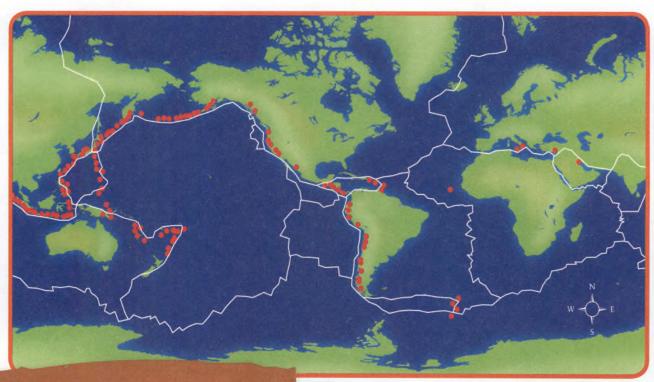
We like to believe that the ground under our feet is solid and secure. People who have felt the ground shake know differently. They have lived through an earthquake.

Earth's crust resembles a jigsaw puzzle more than a solid sphere. Like a puzzle, the crust is divided into different pieces that fit together. These pieces are called plates. Earth's plates float on top of a layer just below the crust called the upper mantle. The upper mantle is solid rock, but it behaves like a thick gel. Heat from deep inside the earth moves through the rock and causes it to slowly swirl and flow.

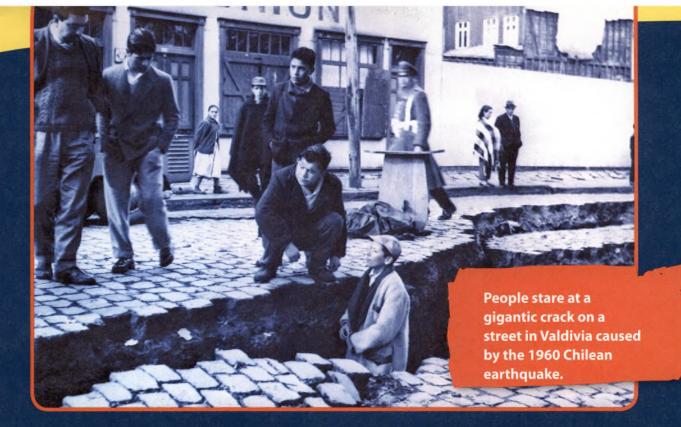


Dr. Inés Cifuentes is a seismologist—someone who studies earthquakes. She likes to compare the movement of Earth's plates to boiling milk. "When you boil milk," she says, "you get that little surface layer of cream on top that moves and dances around. That's what's going on in the earth, except that Earth's crust is much harder than the layer of cream."

As the mantle "boils," it pushes and pulls the plates above it. "It's at the edges of these plates," Dr. Cifuentes explains, "where we have most earthquakes."



The white lines on the map above show plates on Earth's surface. The red dots show where earthquakes have occurred.



# Earth's Largest Quake: A Firsthand Account

Dr. Inés Cifuentes became a seismologist for a very good reason-she and her family lived through the largest recorded earthquake in history. This was the 1960 earthquake that struck Chile. As Dr. Cifuentes explains: "In April, 1960, my family moved to Santiago, Chile. Just a few weeks later, on May 21st, we were woken up by strong shaking. Then, thirty-three hours later a gigantic earthquake hit the southern part of Chile, and with it, an enormous tsunami. About a year later, we took a trip to the northern end of the earthquake zone. And that's where I saw that the land

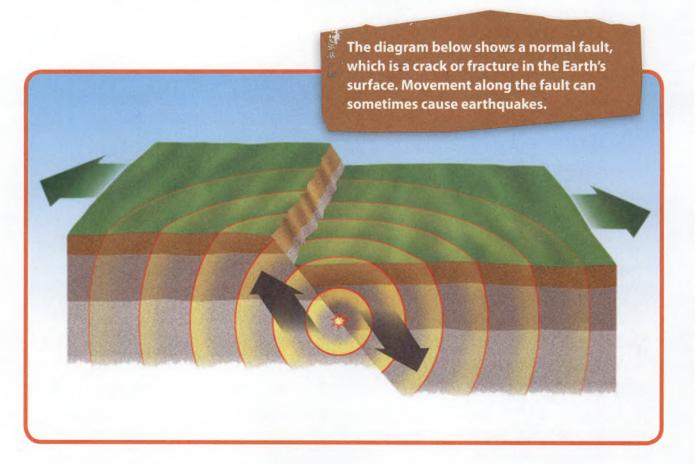
had actually been raised up a meter or so. I saw these huge changes, and that impressed methat the earth could actually do that! Later, as a graduate student I wanted to know how big that earthquake was, how long it lasted, and whether it was preceded by a "slow" earthquake. I worked on this problem for four years. I was able to calculate that Earth's largest recorded earthquake had a magnitude of 9.5. I also confirmed that a slow precursor [forerunner] had occurred 15 minutes before the main earthquake. I am very proud of this work."

# Whose Fault Is It?

Earth's plates crash together, spread apart, and slide against each other. Wherever they do this, they cause breaks in Earth's crust. Seismologists call these breaks faults. Usually, the blocks of rock on each side of a fault just sit there stuck together. But when enough pressure builds, the two sides of the fault can suddenly shift, or slip. This sudden movement releases waves of energy. These waves travel through the earth. We feel them as earthquakes.

Most faults do not slip and cause earthquakes.

Around the globe, however, active faults cause hundreds of earthquakes every day. Most are too small for us to notice. Once in a while, Earth unleashes a whopper.



# Measuring Earthquakes

Seismologists record earthquakes using machines called seismographs. These measure shaking, or ground motion. After an earthquake, scientists read their seismographs. They use their readings to calculate the earthquake's size, or magnitude. Magnitude scales are set up so that each whole number is ten times larger than the number before it. A magnitude 7.0 earthquake, for instance, is ten times larger than a magnitude 6.0 quake.

Truly giant earthquakes happen about once a year.

These are quakes with a magnitude of 8.0 or greater.

They occur only on very large faults and can cause **severe destruction**.

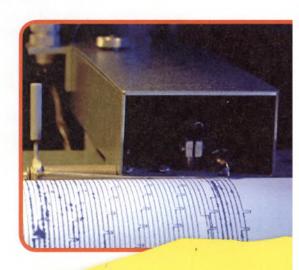
Dr. Cifuentes explains, "The only way you can get an earthquake like the 2011 Japan earthquake is where one of Earth's plates is sliding under another one. This is the only kind of place where you have a fault long enough

and wide enough to release that kind of energy."

Seismologists gave the 2011 Japan earthquake a 9.0 magnitude. It was the fourth largest earthquake ever recorded. They believe that the earthquake occurred on a fault more than 150 miles (250 kilometers) long. It shook Japan for three to five minutes. It was so powerful that it altered the geography of the country. Surprisingly, it wasn't the shaking of the ground that did the most damage. A massive wave proved much more destructive.

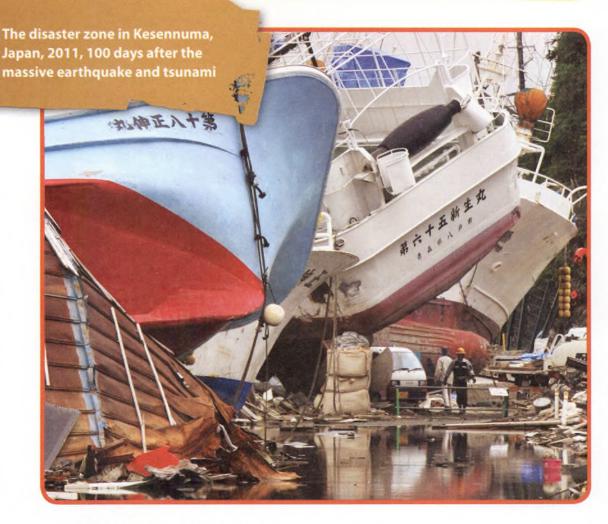
#### STOP AND CHECK

**Reread** How do scientists measure earthquakes? Reread to check your understanding.



Seismographs help scientists determine the magnitude, or size, of an earthquake.

Guy Croft/SciTech/Alam



# Tsunami Terror

When an earthquake occurs under the ocean, it often moves a **substantial** amount of water above it. This creates a fast-moving wave called a tsunami (soo-NAH-mee). Out at sea, the wave may be only a few feet high. As it reaches shore, however, the wave can tower into a monster. It can hurl water for miles inland.

Tsunamis can travel thousands of miles. In 1960, Earth's largest recorded earthquake struck the country of Chile. It produced tsunami waves up to 82 feet (25 meters) high along the coast. The tsunami also raced across the Pacific Ocean at a speed of more than 150 miles per hour. It struck the shorelines of Hawaii, Japan, Alaska, and other places. Hundreds of people drowned.

The 2011 Japan earthquake produced tsunami waves more than 30 feet (10 meters) high. The 2004 Indian Ocean earthquake in southern Asia produced 50-foot (15-meter) tsunamis. These tsunamis engulfed entire cities and shorelines. The waves swept away buildings, cars, and people.

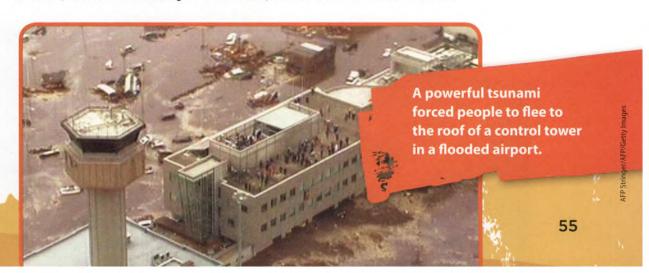
Japan, southern Asia, and Chile had experienced many powerful earthquakes and tsunamis before. Why were so many people unprepared?

# **Predicting Earthquakes**

Seismologists are very good at measuring earthquakes. However, they still can't predict when earthquakes will happen.

"There was a time," Dr. Cifuentes explains, "when I think scientists felt that predicting earthquakes was just around the corner—that we were going to be able to predict earthquakes very soon. But it's clear now that it's not around the corner. In fact, some have given up entirely on predicting earthquakes."

One reason that earthquakes are **unpredictable** is that scientists cannot collect enough information to understand where and when an earthquake might happen next. Although scientists have placed special instruments in many earthquake zones, earthquakes still surprise us. Scientists, for example, had believed the next big earthquake in Japan would happen farther to the south, closer to Tokyo. Instead, it struck farther north.



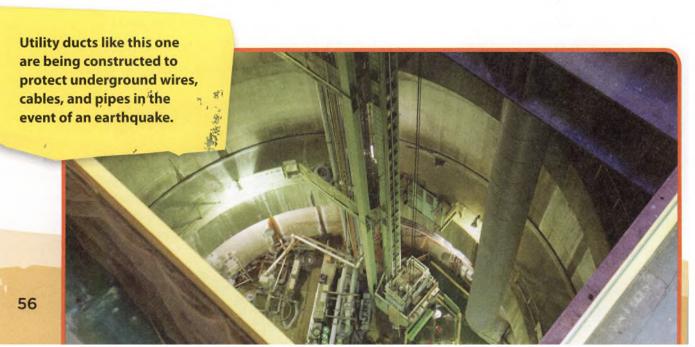
# Planning for Earthquakes

Even though we can't predict earthquakes, we can prepare for them. Many seismologists help make information **available** to people so they can plan for and respond to earthquakes. This is especially important near coastal areas.

"Once the shaking goes on for more than thirty seconds," Dr. Cifuentes says, "it's pretty simple. You have to run away from the ocean and run up hill. You have maybe fifteen or twenty minutes to reach higher ground."

How cities are built also affects how many people survive an earthquake. Cities in many countries have special building laws. Buildings must be strong and flexible. That way, they won't **collapse** during an earthquake. In some countries, however, buildings are often poorly built. The 2010 Haiti earthquake, for example, killed between 46,000 and 316,000 people. Unlike the earthquake in Japan, many of these people were killed by collapsing buildings and falling debris.

However, earthquakes don't just destroy. They also create. "They help make the mountains, coasts, and other landscapes we see around us," Dr. Cifuentes explains. This is worth remembering as we learn how to predict and survive earthquakes in the future.



# What to Do During an Earthquake

#### If you are indoors

- Drop to the ground and crawl under a sturdy piece of furniture until the shaking stops.
- Stay away from glass, windows, outside doors and walls, and anything that could fall, such as a hanging light or fan.
- Stay in bed if you are there when the earthquake strikes. Protect your head with a pillow. Only move from the bed if there is a heavy light or fan above you.
- Use a doorway for shelter only if you know it is strongly supported.
- Stay inside until the shaking stops and it is safe to go outside.
- Do not use elevators.

#### If you are outdoors

- Move away from buildings, streetlights, and utility wires.
- Avoid any space where there is falling debris, such as glass.
- Once in the open, stay there until the shaking stops.

#### STOP AND CHECK

**Reread** How can you protect yourself if you are indoors during an earthquake? Reread to check your understanding.

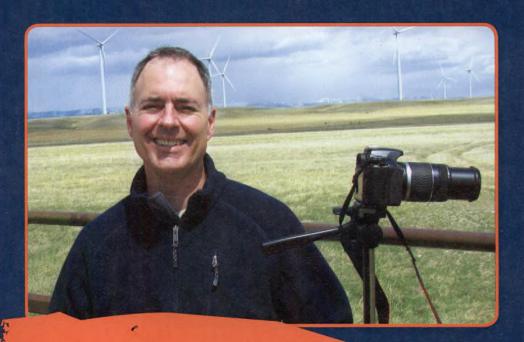
Students raise awareness about gearthquakes by participating in

a nation-wide earthquake drill.

David McNew/Getty Images News/Getty Images

# About the Author

Sneed B. Collard III believes that people can find science anywhere they look. His mother and father were both biologists, so Sneed grew up with exposure to science every day. He has written more than 40 science books for kids, many of them inspired by his own life and interests—including his Frisbee-catching dog! Today he lives in Montana and enjoys writing about the American West and its natural beauty.



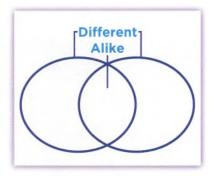
# **Author's Purpose**

Sneed B. Collard III uses interviews with scientists to inform readers. How did reading about Dr. Inés Cifuentes's work help you to better understand earthquakes?

# Respond to Reading

### Summarize

Summarize what you learned about earthquakes. Information from your Venn Diagram may help you.



## Text Evidence

- **1.** How can you tell that *Earthquakes* is an expository text? **GENRE**
- 2. How is the movement of Earth's plates similar to boiling milk? How is it different? Use details from the selection to support your answer. COMPARE AND CONTRAST
- What is the meaning of plates on page 49? Use context clues to help you figure out the correct definition.
   MULTIPLE-MEANING WORDS
- **4.** Write about the impact of the 2010 and 2011 earthquakes in Haiti and Japan. Compare and contrast the earthquakes' destruction and outcome.

WRITE ABOUT READING





How can science help people prepare for earthquakes? **ESSENTIAL QUESTION** 

Why should people take warnings about tsunamis seriously? **TEXT TO WORLD** 

### **ccss Genre** • Expository Text

#### **Compare Texts**

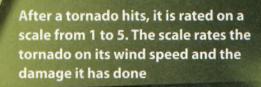
Read to find out what to do in the event of a tornado.

When warm and cold air masses collide, the result can be a fast-moving, dangerous force of nature—a tornado. A tornado is a violent windstorm over land. Wind makes a rotating, funnel-shaped cloud that extends toward the ground. As it moves, it picks up debris and objects in its path.

Tornadoes are a natural process, especially in flat areas such as the middle of the United States. But tornadoes can also be unpredictable. They may cause destruction on one side of a street yet leave the other side untouched.

One way you can tell a tornado is coming is if you spot a funnel cloud. Other warning signs include sounds. An approaching tornado may sound like the rumble of a fastmoving train. It may also sound like a waterfall or like wind whipping into the open windows of a speeding car.

Even after a tornado has passed, there are many hazards. Avoid stepping on glass, sharp objects, or, especially, fallen power lines. Stay out of heavily damaged buildings that may collapse. It is important to treat a tornado as a serious crisis. as warnings may come quickly with little time to act.



# **Tornado Safety**

- When you hear or see a tornado warning on the Internet, radio, or television, take shelter right away.
- If you are in a building with a basement, move to the basement quickly. Get underneath a sturdy, large object, such as a workbench or table.
- If you are in a building with no basement, move to the lowest floor.
   Find a center room away from windows. Crouch down to the floor.
   Cover your head with your hands.
- Avoid being in a car during a tornado.
   If a tornado is approaching, move inside a building, if possible.

#### **Make Connections**



What should people do in the event of a tornado? **ESSENTIAL QUESTION** 

How are tornadoes similar to other natural disasters? **TEXT TO TEXT** 



# ACRASH COURSE IN FORCES IN FORCES IN MITH MANAGEMENT IN THE MANAGE

SUPER SCIENTIST

#### **About Max**

Real Name: Maxwell J. Axiom Hometown: Seattle, Washington Height: 6' 1" Weight: 192 lbs

Eyes: Brown Hair: None

Super capabilities: Super intelligence; able to shrink to the size of an atom; sunglasses give x-ray vision; lab coat allows for travel through time and space.

Origin: Since birth, Max Axiom seemed destined for greatness. His mother, a marine biologist, taught her son about the mysteries of the sea. His father, a nuclear physicist and volunteer park ranger, schooled Max on the wonders of earth and sky.

One day on a wilderness hike, a megacharged lightning bolt struck Max with blinding fury. When he awoke, Max discovered a newfound energy and set out to learn as much about science as possible. He traveled the globe earning degrees in every aspect of the field. Upon his return, he was ready to share his knowledge and new identity with the world. He had become Max Axiom, Super Scientist.

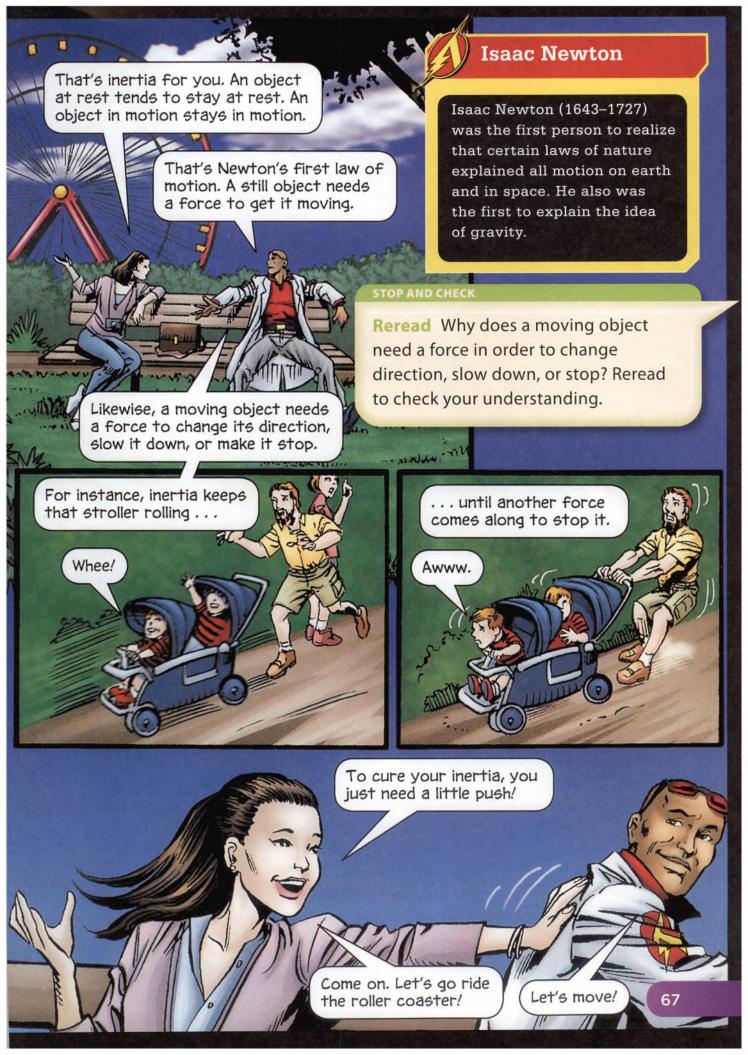
**BY Emily Sohn** 

ILLUSTRATED BY Steve Erwin and Charles Barnett III



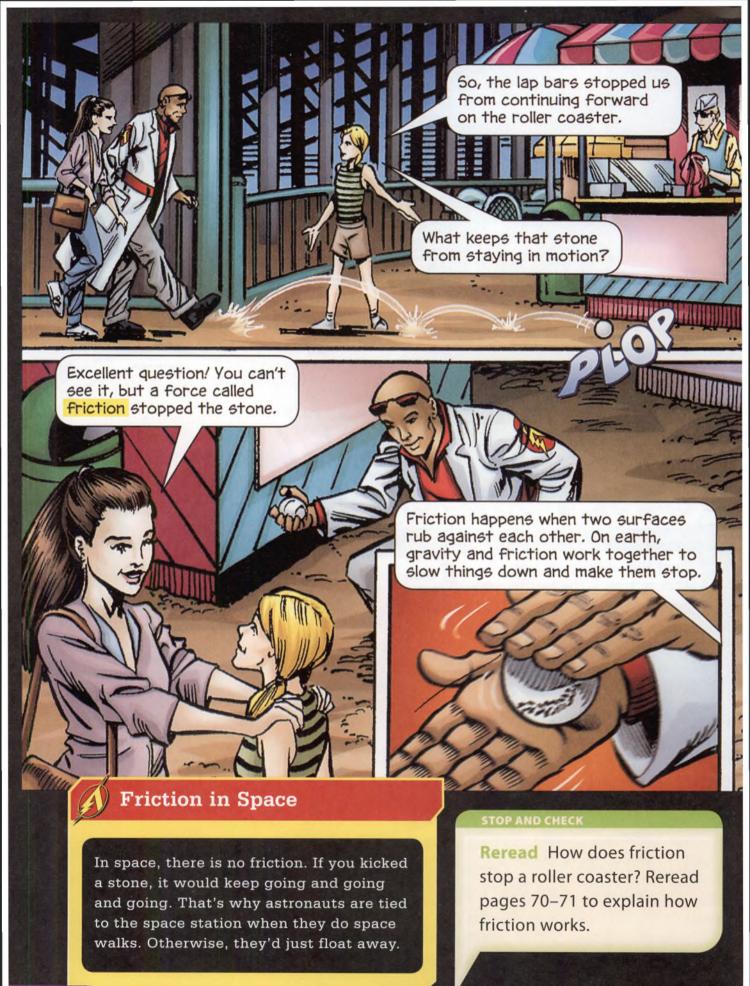




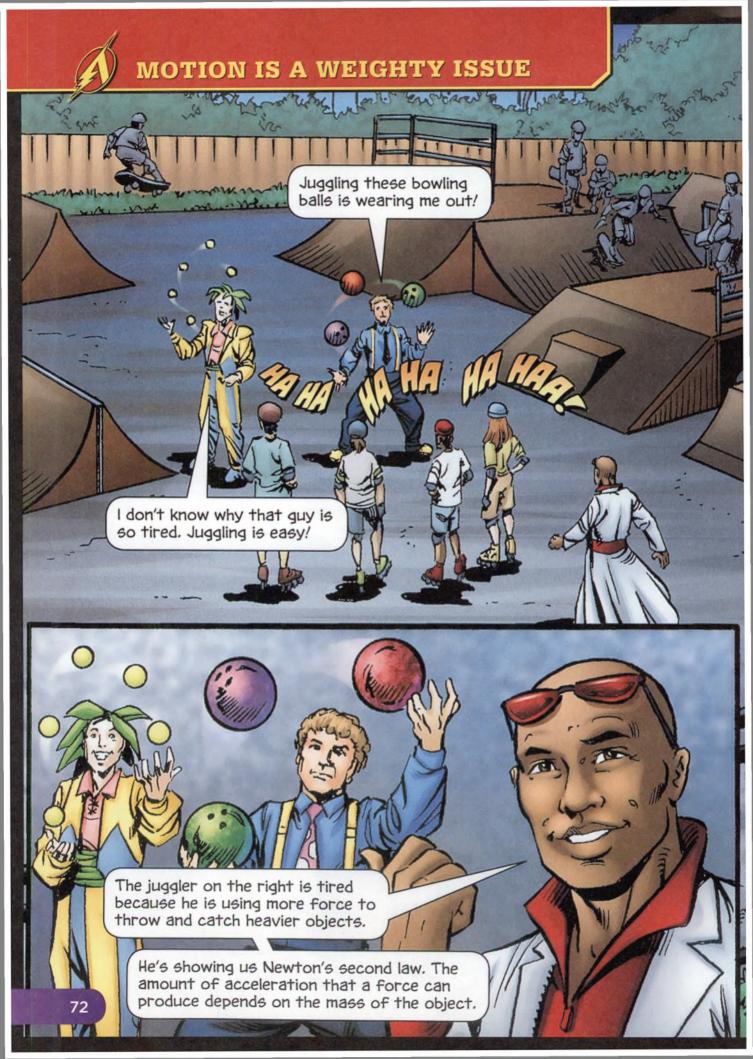


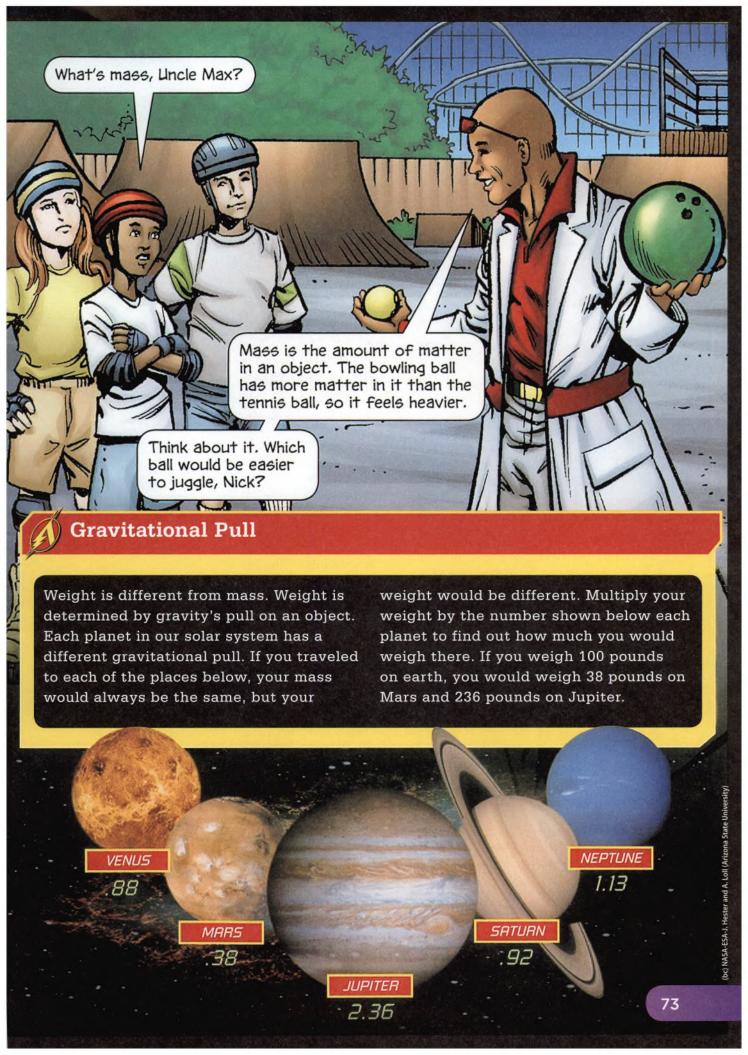










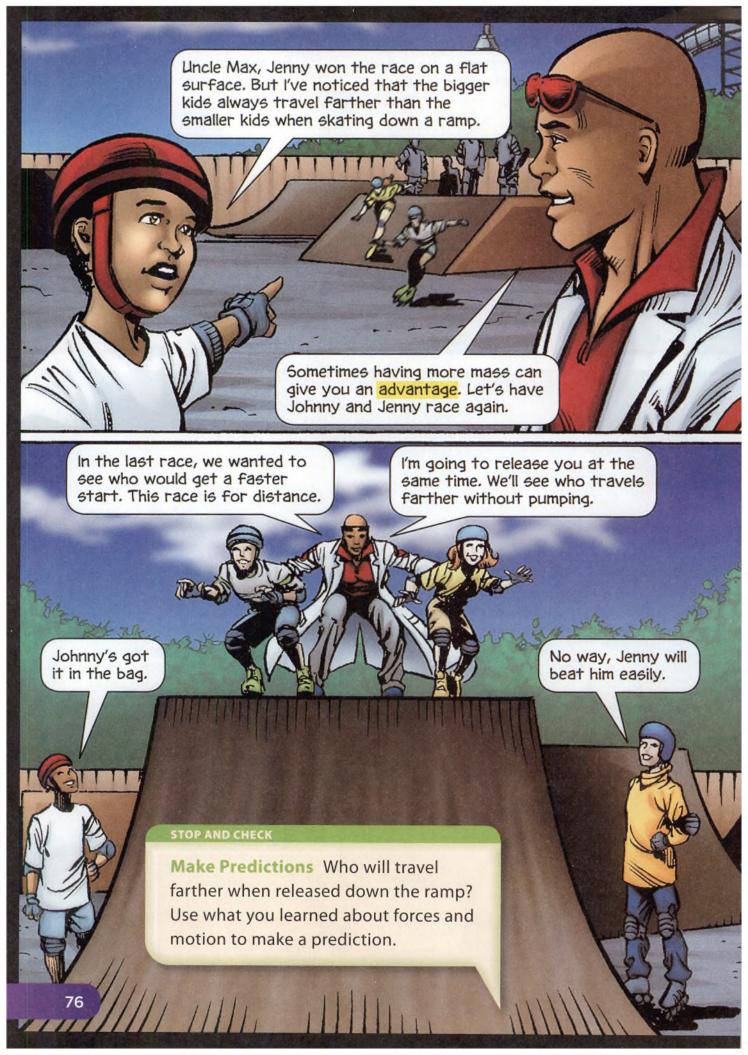


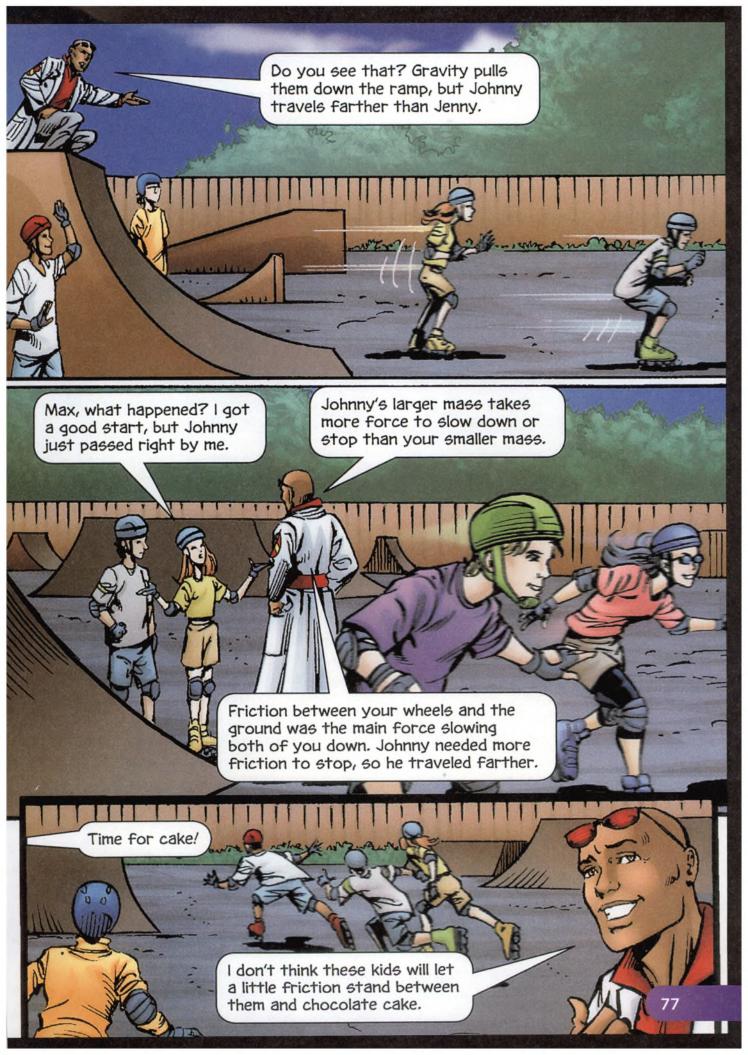












lives in Minneapolis, Minnesota. She writes mostly about science and health for kids and adults.

Emily studied science in school. She even spent a few seasons following sea lions and seals to learn about them. When not writing and learning more about science, she loves rock climbing and running triathlons.



is a comic book artist. Early in his career, Steve contributed art to many superhero comic series, including Batman Returns and Superman: The Man of Steel. For his accomplishments in comics, he was inducted into the Oklahoma Cartoonists Hall of Fame.

#### **Author's Purpose**

A Crash Course in Forces and Motion with Max Axiom, Super Scientist is an informational text written in the form of a graphic novel. This means that the information is presented graphically, or in words and pictures that tell a story, much like a comic book. Why would the author choose to teach science concepts in a graphic novel format?

#### **Respond to Reading**

#### **Summarize**

Summarize what you learned about forces and motion. Information from your Cause and Effect Chart may help you.

#### **Text Evidence**

- **1.** How do you know that A Crash Course in Forces and Motion with Max Axiom, Super Scientist is a narrative nonfiction text? **GENRE**
- Why would an object moving in space go on forever? Use details from the text to support your answer. CAUSE AND EFFECT
- 3. What is the meaning of approach on page 71?
  Use context clues to help you figure out the meaning. DEFINITIONS AND RESTATEMENTS
- 4. Write about why a person's weight would be different on Jupiter than on Earth. Use details from the text to support your response. WRITE ABOUT READING



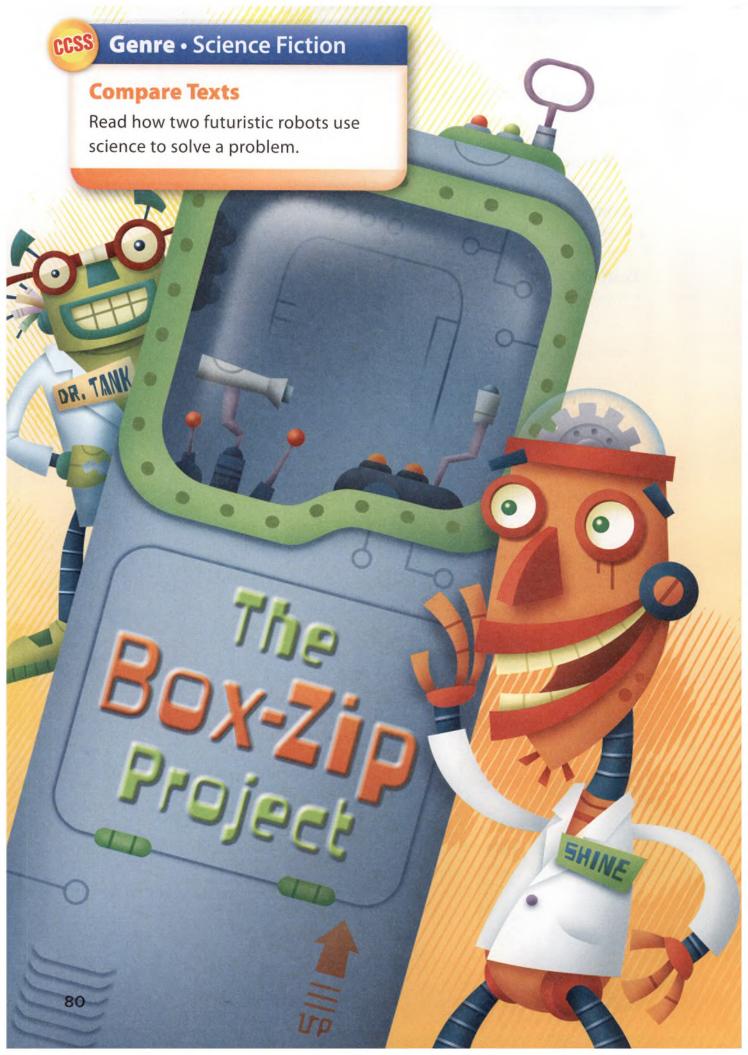


How do forces and motion affect you?

ESSENTIAL QUESTION

In what ways can understanding gravity help people? **TEXT TO WORLD** 





he thirteenth sun of Xyport rose in the orange-tinted sky as Dr. Tank and his assistant, Shine, arrived for work.

"Good morning," Shine said, slipping into his lab coat. "Today's the day! I feel it in my battery!"

Dr. Tank smiled and said, "Now, Shine, we don't feel. We are robots, remember?"

Shine's robot laughter clattered like marbles inside a can. "You got me, Dr. Tank! But, honestly, I think we'll figure out the problem with this silly machine today."

The silly machine, known as Box-Zip, stood in the middle of the science laboratory looking like a ticket booth.

"Let's hope so, Shine. This project will be history if we're not successful pronto!"

For months, the robots had been attempting to travel in the Box-Zip to Earth. A voyage to planet Xto was no problem, and it was twice the distance. They could land on Grolon in a heartbeat. When they traveled to Vinzine, they returned ten minutes before they even left!

But Earth? Every time they attempted landing on that bizarre planet they could only get so close.

"Time for the morning checklist," Dr. Tank said.

"Ready-o," Shine answered.

"Inertia?" inquired Dr. Tank.

"Check," said Shine. "This baby is definitely at rest."

"Superb. Now let's apply force to move it," Dr. Tank said. Together, they pushed Box-Zip, which slid easily.

"Now use force to stop it," Dr. Tank said. Shine held out his enormous robot hand and immediately stopped the sliding Box-Zip.

"Let's do a trial run to Klugger and back," said Dr. Tank. Both robots stepped into Box-Zip and buckled up.

"Accelerate to warp times five blinkers," Dr. Tank advised. As Box-Zip moved faster, the seat belts kept the robots in place.





Almost instantly Box-Zip glided onto a dusty purple planet. Shine wanted a purple frozen beverage from the 7-0-12 store, but Dr. Tank explained that there was simply no time. In five blinkers, they were back in the laboratory.

"Klugger is no problem, yet we can't manage an Earth landing!" the frustrated Dr. Tank said. "It's ridiculous!"

"Come on," Shine encouraged. "Giving up is not an option."

Dr. Tank couldn't help but smile at his unfailingly cheerful assistant. Now he regretted not letting Shine get a purple frozen beverage on Klugger.

"You're absolutely right," said Dr. Tank. "Let's try Earth again."

Buckled safely in Box-Zip, Shine began to accelerate to warp times seven blinkers, then twelve blinkers. The world was a distorted blur of colorful motion. The robots' chrome teeth chattered as they whizzed through the galaxies, finally landing with a thud. They peered out the window.

"Drats!" Dr. Tank shouted in frustration. "It's happened again! We'll never make it all the way down."

Shine looked down. There was Earth below, yet Box-Zip remained at least fifteen feet above, stuck in the many arms of some enormous green and brown structure.

"Why can't we get to Earth?" Dr. Tank cried.

"Yoo-hoo, there!" came a voice from below.

The robots looked at each other. Something was attempting communication!

"Yoo-hoo!" the voice called again.

"Maybe 'yoo-hoo' means hello," said Shine. "Let's try to communicate!"

Shine leaned out the window, calling, "Yoo-hoo!"

"Might I possibly make an **inquiry**?" the Earth creature said.



"An inquiry?" asked Shine.

"A question, might I ask a question?"

"Certainly," answered Dr. Tank. "And then we'll ask you a question."

"Very well," said the creature. "Did you mean to land in a tree?"

"Tree!" said Shine. "What a hilarious name for this funny-looking thing!"

"Your tree prevents us from landing on your planet," said Dr. Tank. "Is there something we can do about it?"

The creature nodded his head. "I believe that gravity might offer a solution. Try rocking back and forth a bit. Once you start falling, I'm sure you'll come all the way down."

The robots looked at each other doubtfully. Still, they shifted from side to side until Box-Zip began to move. Then it moved down. In fact, it moved down rather quickly.

"Yes!" Dr. Tank shouted. "We've landed on Earth at last!"

To prove their successful landing, the robots had photographs made with the Earth creature, whose name turned out to be Mortimer.
With some special sticky tape, Box-Zip was soon patched up and ready to go home. Before leaving Earth, Dr. Tank bought Shine a delicious green frozen

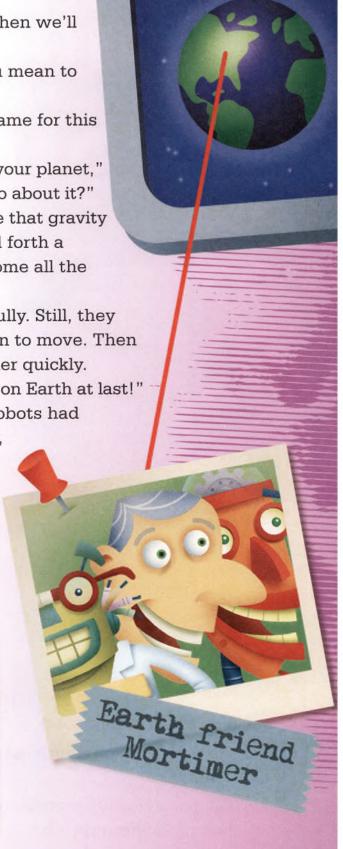
#### **Make Connections**

beverage for the trip home.

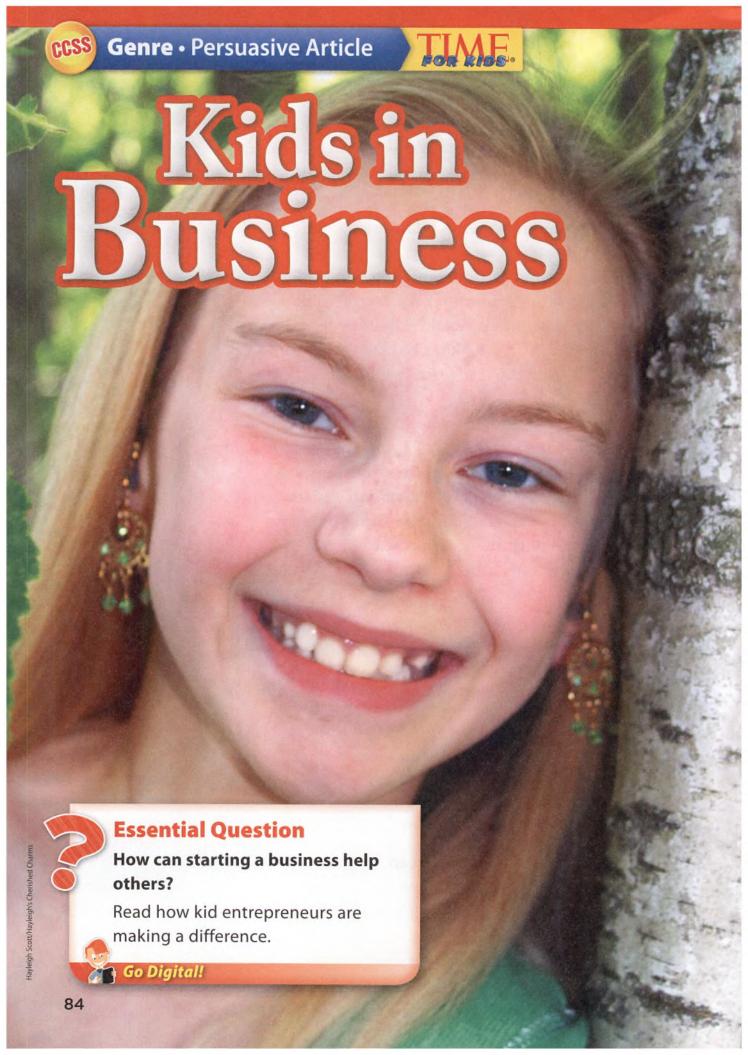


How did science help the robots solve their problem? **ESSENTIAL QUESTION** 

What are a few ways that science can help us answer questions and solve problems? **TEXT TO TEXT** 



Earti



Starting a business is a huge undertaking. That's why these young entrepreneurs who help others are nothing short of amazing.

ayleigh Scott has been wearing hearing aids since she was 18 months old. Hiding the hearing aids behind her hair had become routine. At age 5, she decided that she wanted to be proud of them. So Hayleigh began drawing out her ideas to make charms that look like earrings. The charms would hang from her hearing aids and really stand out. Her mother helped Hayleigh bring those drawings to life. Her idea to highlight hearing aids launched a new enterprise.

At age 8, Hayleigh began a business with help from her family, including her twin sister. She now sells more than 50 charms in different styles. She even holds patents on her creations.





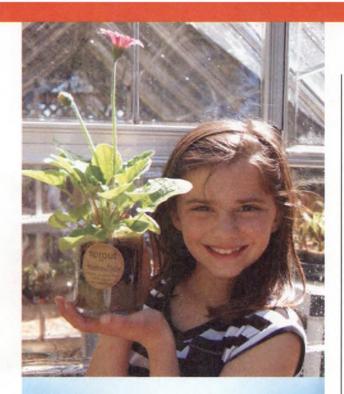




Joshua's work includes a backpack program that is aimed especially at helping hungry children. He has plans to start a community garden too. That way, he says, "People can get more fresh food."

#### STOP AND CHECK

Reread Why did Hayleigh want her charms to stand out? Reread to check your understanding.



Anna's plant business helps the environment.

nna Azevedo is passionate about the environment. At age 10, she realized that most drinking glasses cannot be recycled. So, she found a nature-friendly way to reuse old drinking glasses. Anna's budding business, Sprout, sells "plants—in a glass."

Anna hatched her innovative idea based on biology. "Plants basically work for you. They purify the air and take out all the bad stuff," Anna says. Her process? She collects drinking glasses, grows plants in her backyard, and makes fertilizer. Then she transfers the plants, sand, and soil to the glasses to create a green product for indoors. Anna sells the plants on her Web site.

young designer who makes clothes for kids and teens. For her sixth birthday, Cecilia asked for a sewing machine. She wanted to make her own clothes. Cecilia took two sewing lessons. Then, she says, she just started sewing, and she hasn't stopped since.

"I started making clothes for my sister and her friends, and word got around," Cecilia told TIME For Kids. Her mom's friend, a store manager, helped Cecilia start her business. Her dream is to have her clothes sold in stores around the world. Cecilia knows there's more to life than just pretty clothes, however. She also donates dresses to raise **funds** for charity. After all, trends come and go, but helping others never goes out of style.

Cecilia often donates dresses she has made to raise funds for charity.





## Kids Count

If you think you don't have enough money to make a difference, think again. By working with others, you can make a difference! Through a program called Penny Harvest, students gather coins from family and friends. The small change adds up to big donations for charities. The bar graph on the right shows the total amount of money raised by Penny Harvest over five recent years. Total funds raised by Penny Harvest per year

o\$802,199.14

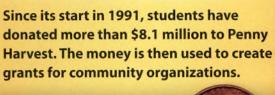
o\$799,033.35

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2007 2008 2009 2010 2011





- 1. How do you know that Kids in **Business** is a persuasive article? Use details from the selection to support your response. GENRE
- 2. What led Anna Azevedo to start her business? MAIN IDEA AND KEY DETAILS
- **3.** What is the definition of *youngest* on page 85? Tell how knowing the suffix helped you figure out the meaning. SUFFIXES
- 4. What are a few ways that young entrepreneurs can help people around the world? TEXT TO WORLD



# Startinga Successful

# business

Becoming an entrepreneur is hard work. But if you're dedicated and have excellent organizational skills, it can be rewarding—sometimes, a small idea can become a very successful business! Neale S. Godfrey, author of *Ultimate Kids' Money Book*, shares these tips for starting a booming business.



#### Step 1 Have an innovative idea.

Suppose you like dogs, have free time, and feel **compassionate** towards people with busy schedules. Why not start a dog-walking service?



# Find out if your business has a chance of succeeding.

Come up with questions and do a market survey. Ask prospective clients about their likes and needs. Find out how much they would be willing to pay for your services. The responses to your questionnaire will help you decide if you should move forward with your plan. Also, check out the competition. If there's already another dog-walking service in your neighborhood, your business has a smaller chance at success.



## Step 8 Compile a business plan and a budget.

A detailed business plan says what product will be sold, how it will be sold, whom the customers will be, and how much it will cost to start. A budget outlines your finances in detail.



#### Step4 Contact potential customers.

Reach out to anyone who could need you. Then, set a work schedule for yourself. Finally, you have to actually start walking dogs!



#### **Step 5** Keep tabs on your business.

Once your business is up and running, look at how it's doing. If you have money left over after your business expenses are paid, you've made a profit. You can consider yourself a successful entrepreneur!



#### **Make Connections**

What steps can you take to start a new business? ESSENTIAL OUESTION

How can an entrepreneur become successful? TEXT TO TEXT



# Secret Secret Message Based on a poem

Mina Javaherbin



by Rumi

Bruce Whatley



#### **Essential Question**

What are some messages in animal stories?

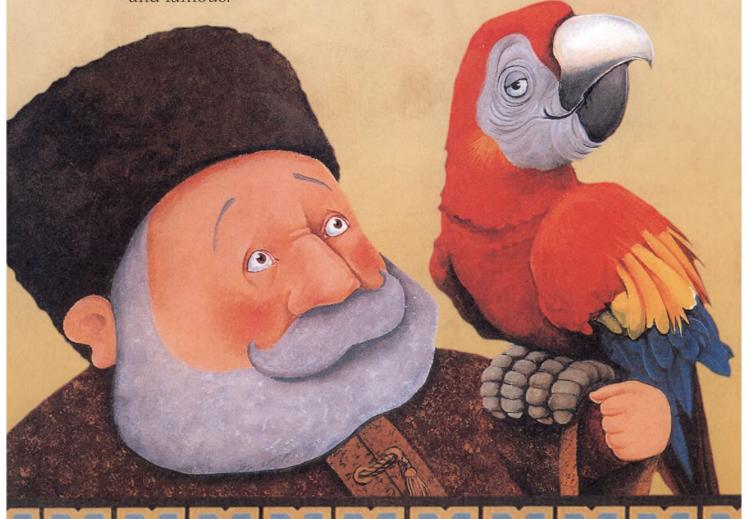
Read about a merchant who, without realizing it, delivers a secret message.



Go Digital!

Many years ago, a wealthy Persian merchant kept a parrot from India in his shop at the bazaar. The bird, who once flew free in the Indian forests, now lived in a small cage.

Colorful tiles covered the shop's domed ceiling and walls, but the parrot preferred the beauty of the forest. All day the bird sang of longing. But the merchant would not let him go, because the parrot could sing and talk, and his bright feathers **attracted** customers to the shop. The parrot had helped the merchant become rich and famous.





One day, a group of wealthy traders walked by. Their sparkling cloaks reminded the parrot of the forest stars, and he called out to them. Enchanted by the bird, the traders entered the shop. Once inside, they purchased all the merchant's goods. The merchant rewarded the parrot with a large, golden cage.

That night at home, the merchant announced, "I'm going to India to buy more goods for my shop."

Everyone wanted something from India. The cook asked for extraordinary spices; the merchant's daughters asked for **dazzling** silk robes; and his wife **requested** brilliant jewels. The merchant promised to buy all the gifts.

Before he left on his trip, the merchant asked the parrot if he wanted anything from the place that had been his home. "An exotic flower or a silver cup, perhaps?"

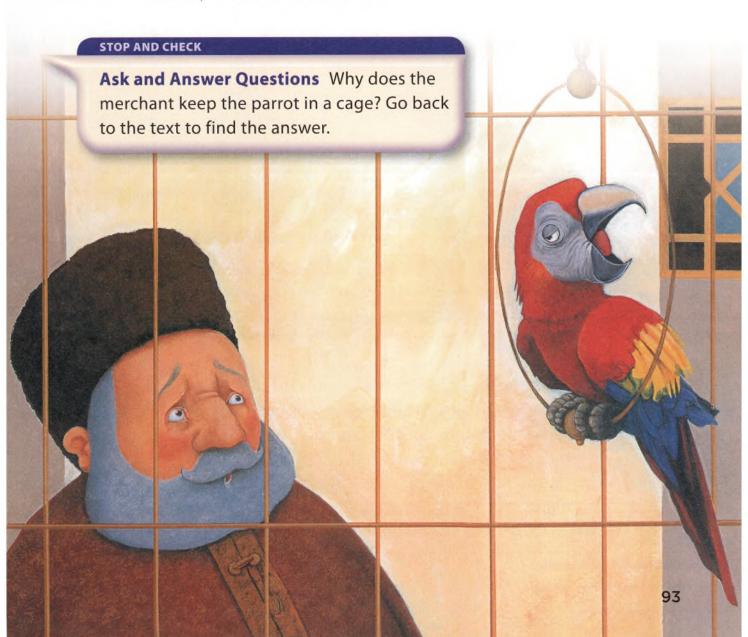
"I don't want any gifts," the parrot said with a sigh.

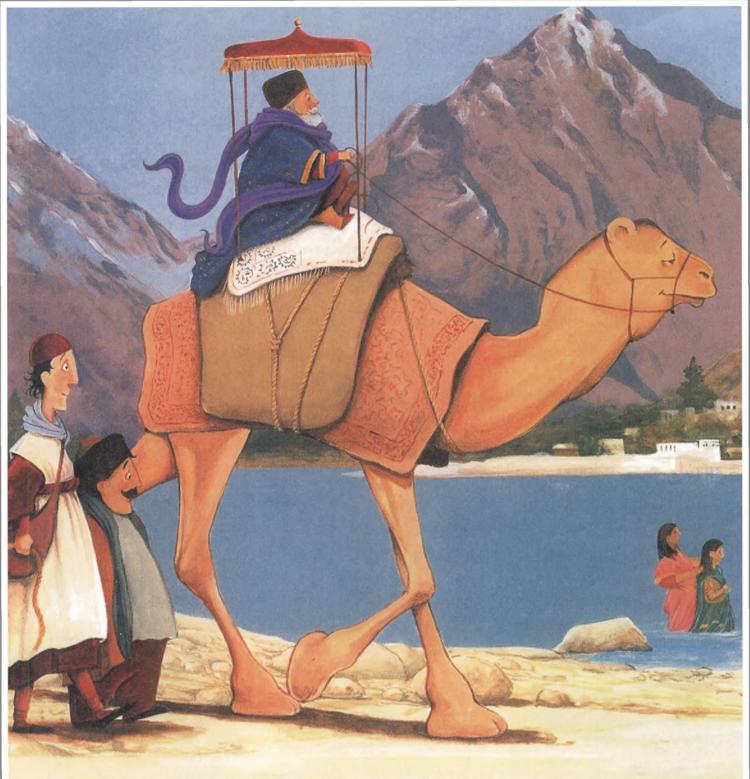
"But when you pass through the forest and see other parrots like me flying free, tell them I live far away. Tell them I miss flying with them, I miss their sweet voices, I miss the smell of the trees—"

The merchant interrupted, "But, Parrot, you live inside this wonderful golden cage with three swings."

"You're right," said the parrot. "Tell them about this cage."

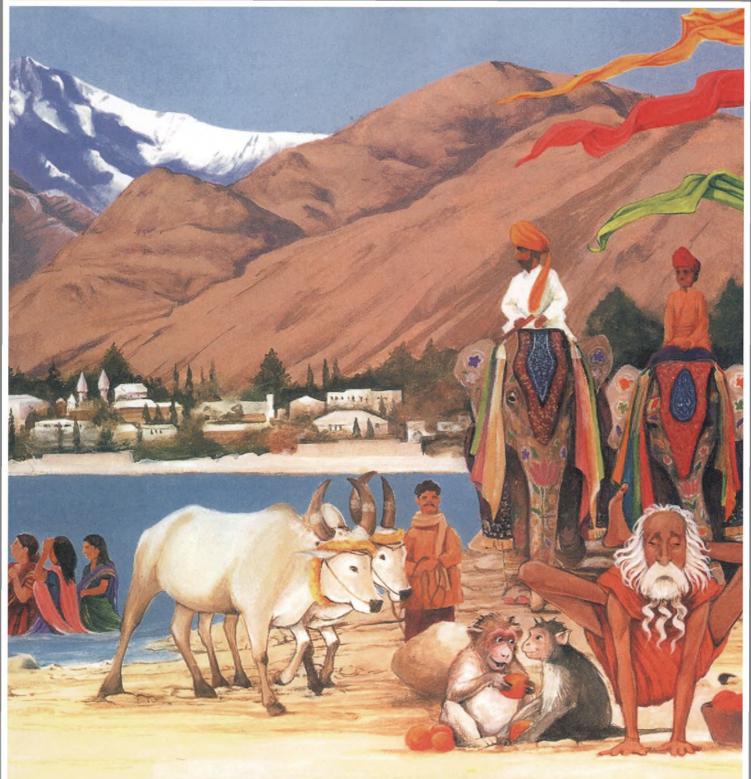
"I will," said the merchant.





On the Silk Road, the caravan **trudged** over dry sand dunes, passed through steep green valleys, and braved dangerously narrow mountain paths. After a long journey, the travelers crossed the Indus River.

At the city of Gilgit, they saw temple dancers, monkeys, elephants, and cows enjoying a river festival. When they noticed the yogis who stayed calm in twisted poses, they knew they had arrived in India.



After the merchant made his purchases for the shop, he found brilliant jewels for his wife and sent men to the far corners of the market to buy rare spices for the cook. At the silk market, the merchant could not make up his mind—**fabrics** waved on display in a carnival of colors. Finally, the merchant picked a soft shade of pink with small red flowers and a bold blue fabric with a yellow leaf pattern for his daughters.



On the way back to Persia, the merchant's caravan passed through a thick tropical forest. He heard voices like his parrot's. He saw beautiful birds like his, flying free among the trees.

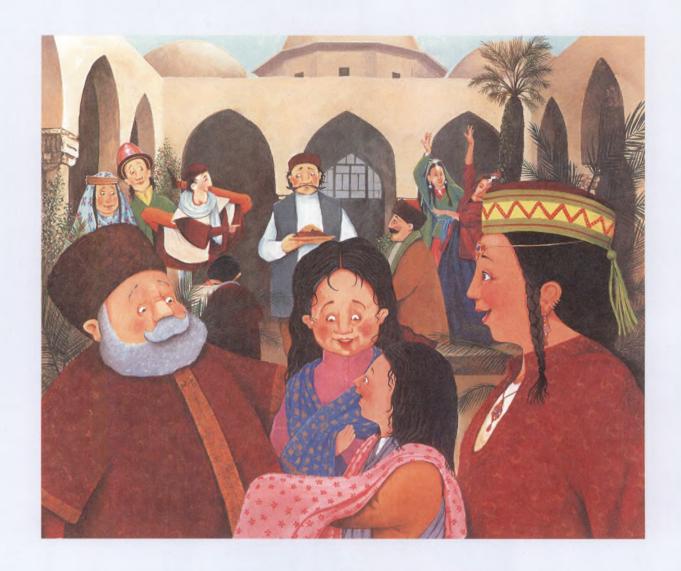
"Stop the caravan," ordered the merchant. He stepped down and asked the birds to gather around. "I have a message from your friend," he said. The parrots sat on twisted banyan tree branches and listened.

"Far away from India, I own a parrot that looks like you. He sent a message: he remembers flying in the forest, hearing your sweet voices, and smelling the trees. He lives inside a beautiful cage that I bought for him. It has three golden swings inside."

The birds listened carefully. Suddenly, one by one, they fell off the branches with their backs on the ground and their feet in the air. Their bodies lay still under the shadow of the banyan canopy.

The shocked merchant could not believe his eyes. The parrots stayed stiff on the ground. After a while, the merchant ordered his caravan to move on.





Once he was back in Persia, the merchant's family and friends celebrated his arrival with delicious food prepared by the cook, using his new Indian spices. Dancers paraded in the courtyard to tambourines and harp as the merchant told tall tales about his journey. He left out the part about the parrots in the forest.

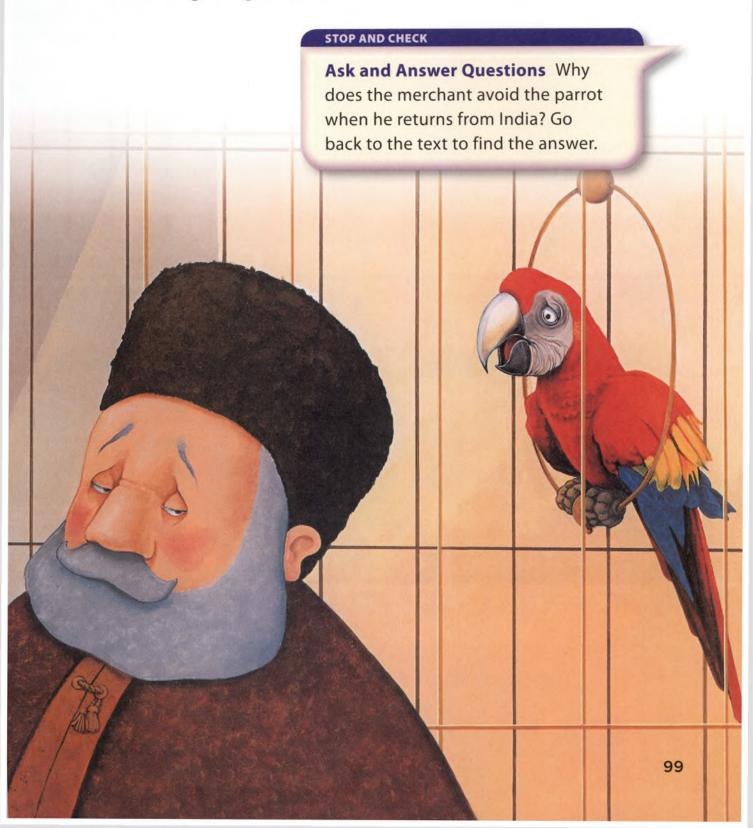
At his shop, the merchant busied himself with storing the new goods. He avoided the parrot.

One quiet afternoon the parrot asked, "Merchant, when you were in India, did you deliver my message?"

"Parrot, something bad happened in the forest. I don't wish to talk about it."

"For years I have sung for you in a cage," said the parrot. "I didn't ask for jewels or spices. I only asked you to deliver a message for me. Is this how you repay me?"

"Well, if you insist, I will tell you. I did indeed deliver your message to the birds. They listened, and then, suddenly, they all fell off the tree branches, not one breathing a single breath."



The parrot listened. Then, as soon as the merchant stopped talking, he fell off his golden swing with his feet pointing up to the sky. Not a single breath came out of him.

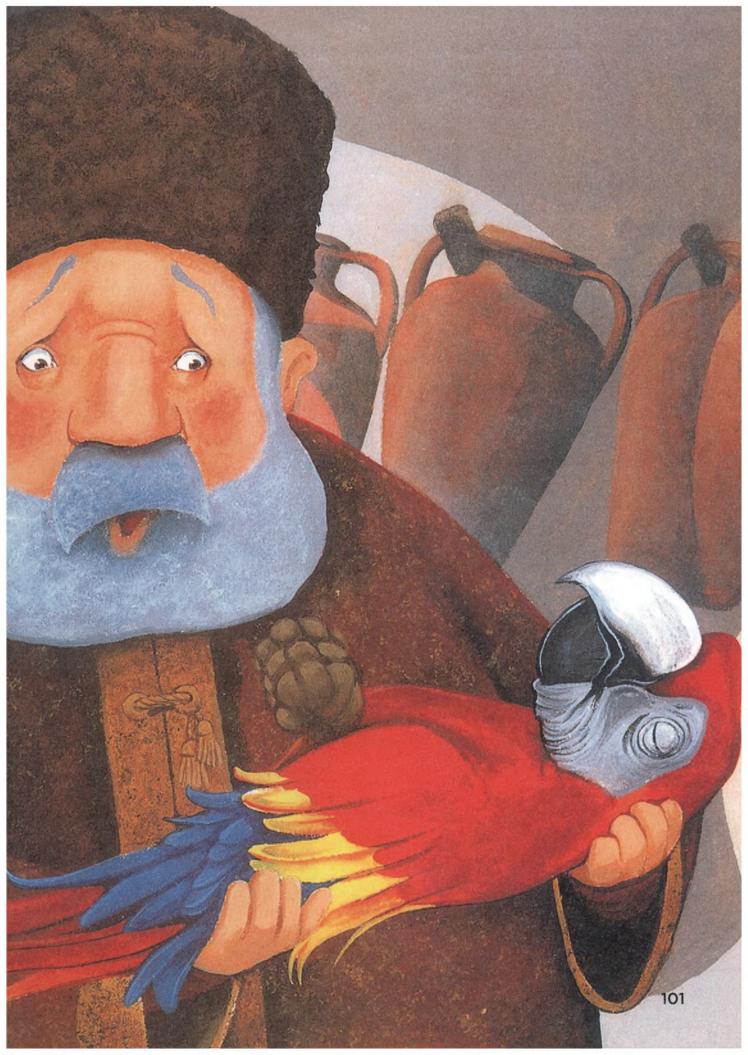
The merchant ran to the cage. "What have I done?" he cried. "Have I caused your death?"

The parrot stayed still at the bottom of the cage. The merchant knew that this parrot would never bring another customer to his shop.

He took the stiff bird out of the cage and placed him on the counting table.







In an instant, the parrot fluttered his wings and **soared** up to the shop's domed ceiling.

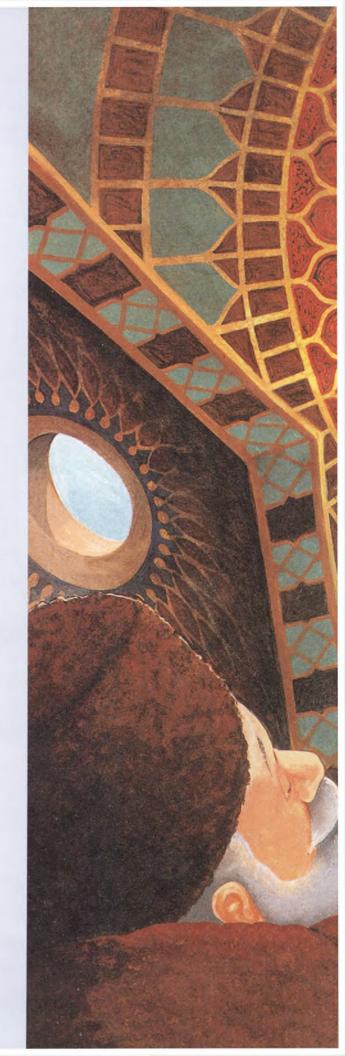
"You're alive!" the merchant said.

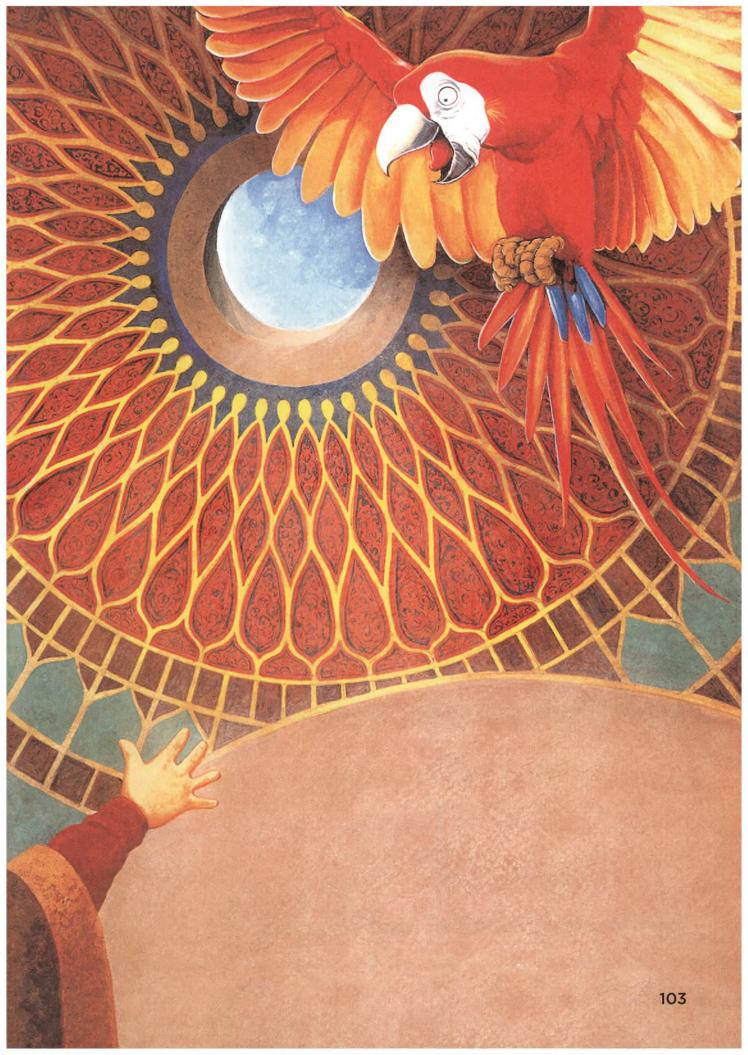
"More alive than ever, Merchant, thanks to the message from my friends in India!"

Then the parrot flew away through the hole in the domed ceiling, and all the way to India, to fly free among his friends.

#### STOP AND CHECK

**Reread** Why does the parrot feel "more alive than ever"? Reread page 102 to check your understanding.





# About the Author and Illustrator

Mina Javaherbin would rather read than do anything else in the world, but she also enjoys eating, talking, and writing. As a child, she filled journals and diaries with songs, poems, and stories. The Secret Message is based on a bedtime story her father told her when she was growing up in Iran. "Years later, when I studied Persian literature," says Mina, "I discovered my favorite bedtime story was actually an ancient poem."

Bruce Whatley loves how characters sketched on paper come to life in his illustrations. His favorite stories to illustrate are those with an unexpected twist at the end. Old movies and television shows have a great influence on his work, as do early American artists. Always interested in learning new art techniques, Whatley hopes to try animation in the future.



Mina Javaherbin based *The Secret Message* on a poem that was written long ago. Did she write this story mainly to inform, persuade, or entertain? How do you know?



Mina Javaherbin



Bruce Whatley

# Respond to Reading

#### Summarize

Use details from the selection to summarize *The Secret Message*. Information from your Theme Chart may help you.

### Text Evidence

- **1.** How do you know that *The Secret Message* is a folktale? **GENRE**
- 2. How do the parrot's actions help you figure out the theme of the story? THEME
- Locate the word traders on page 92. Use context clues to figure out the meaning. Explain how the root word trade helped you. ROOT WORDS
- **4.** Write about the meaning of the parrot's message to his friends. **WRITE ABOUT READING**

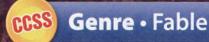
## Make Connections



Tell how the merchant delivered a secret message even though he did not know it. **ESSENTIAL QUESTION** 

Folktales often include a central message for the people who read them. What lesson does this folktale teach about the importance of freedom? **TEXT TO WORLD** 





### **Compare Texts**

Read how a goat learns an important lesson.

Francis Fox had already gobbled one mouse, but one was never enough to fill his stomach. His greed got him into trouble as he chased the second mouse. He did not see the old well and tumbled nose over tail down into the cold water. Looking up, Francis saw a blue circle of sky and jumped as high as possible—but

"How will I get out?" howled Francis.

he could not reach the top.

Just then, the sound of chewing echoed down in the well, and Francis saw Gordo Goat at the edge of the well's opening. Francis knew that Gordo would do anything for food and water. He made loud slurping sounds to attract the old goat's attention.

"This water is delicious," the sly fox shouted. "Don't you want a thirst-quenching drink?"

Gordo had been chewing on thorns and weeds, and he definitely needed water to wash down his food. "Sure," he said, "but how will I get out?"

"We'll help each other," said Francis with a smile that showed all of his teeth.

Gordo was not sure whether Francis was being honest, but the goat was very thirsty. He jumped into the well, and when his thirst was quenched he looked up.

"Now . . . how do we get out of here?" he asked.

"Easy," said Francis. "Put your front hooves on the wall, and I'll climb on your back and jump out of the well. Then I'll go get help for you," said Francis, grinning. "Honest."

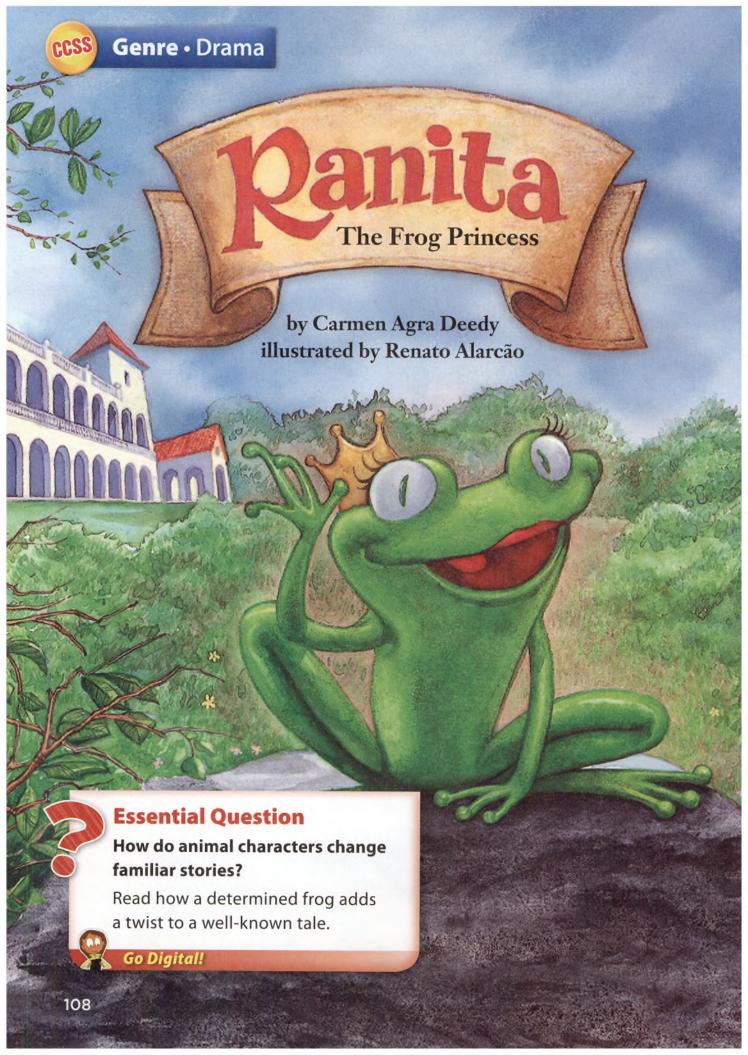
"Okay, but hurry back," said Gordo, placing his hooves against the stones.

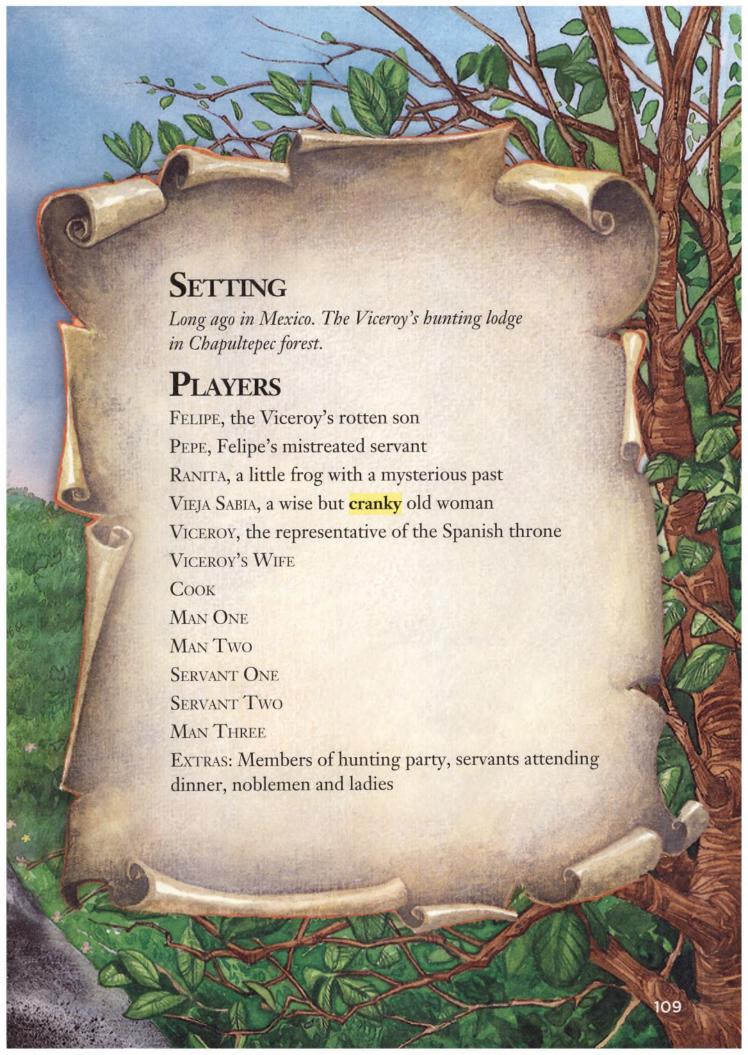
In a flash, Francis leaped onto Gordo's back and then climbed onto the goat's horns to spring out of the well. Francis looked back down at the goat and waved. "Didn't anyone ever tell you to look before you leap?" The fox chuckled as he ran off, leaving Gordo to find his own way out of the well.

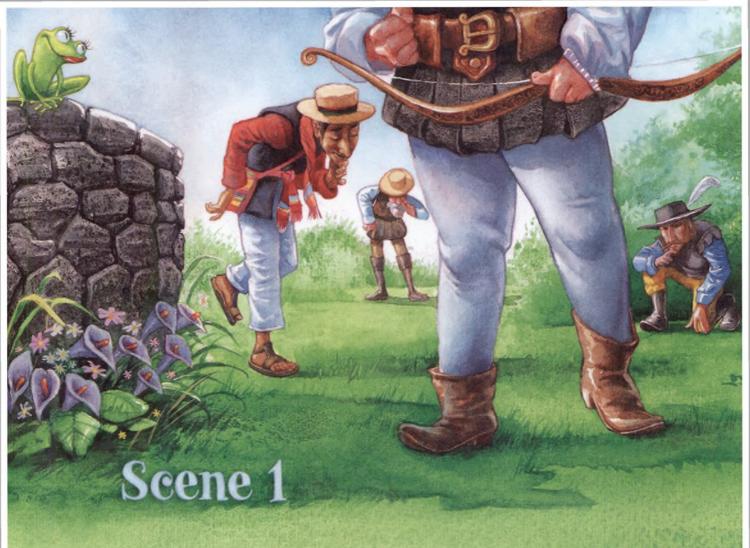
### **Make Connections**

What lesson does the goat learn in the fable? **ESSENTIAL QUESTION** 

What lessons can we learn from animal characters? **TEXT TO TEXT** 







In a forest clearing, men are frantically searching the ground. From a nearby stone well, Ranita watches but remains unnoticed.

Man One: (Frustrated) Keep looking! If we don't find that golden arrow—

Man Two: —we'll be on tortillas and water for the next month! (Men, grumbling, all agree.)

(Enter Felipe.)

**Felipe:** (Loud and demanding) Well? Have you found my golden arrow yet?

Man Three: Not yet, Señor!

**Felipe:** (Sweetly, hand over heart) It was a gift from my dear mother. (Turning suddenly and hissing) Find it or I will feed you to the jaguars—starting with my bumbling servant, Pepe. It's his fault I missed my mark. Now, out of my sight, all of you! (Men exit hurriedly.)

Felipe: (Stomping foot and whining) I want my golden arrow back!

Ranita: (Sitting on top of well, holding the golden arrow) You mean,

this golden arrow?

Felipe: (Joyously) My golden arrow! You found it! You—(Stops

cold)—you're a frog.

Ranita: You were expecting a Mayan princess, perhaps?

Felipe: (Rolls eyes) Well, I wasn't expecting a talking frog!

Ranita: (Sighs) I'm under a spell. I don't like to talk about it.

Felipe: (Pauses to think) Not my problem. Hand over the arrow.

Ranita: (Plink! Drops it back down the well) Hmm, looks like it's

your problem now.

Felipe: N-n-noooo! (Threateningly) What have you done, you

foolish frog?

Ranita: If I am so foolish, how come I am the one with the arrow

while you are the one standing there talking to a rana, a frog?

Felipe: I would squish you right now—(Sniffs)—but you are

only a frog.

Ranita: (Warningly) You want that golden arrow?

Felipe: (Suspicious) In exchange for what?

Ranita: A promise.

**Felipe:** (*Relieved*) Oh, is that all?

Ranita: A promise is a very serious thing.

Felipe: (Coughing) Yes, yes, of course—go on.

### STOP AND CHECK

**Ask and Answer Questions** What kind of character is Felipe? Go back to the text to find the answer.



**Ranita:** If I rescue your golden arrow, you must promise to let me eat from your *plato*, sleep in your *cama*, and give me a *beso* when the sun comes up.

Felipe: (Just stares) Eat from my plate? Sleep in my bed?

KISS you? That is disgusting!

Ranita: No promise, no golden arrow.

Felipe: (Crossing his fingers behind his back) I promise.

(Ranita fetches the arrow. Felipe bows and runs off.)

Ranita: Espera! Wait! I can't hop that fast! (Hangs her head and begins to cry) He's gone. Now I'll never break this evil spell.

(Enter wise woman, leaning on two canes.)

Vieja Sabia: It doesn't feel very good, does it?

Ranita: (Blows nose) Please, no lectures today, old woman.

Vieja Sabia: My name is Vieja Sabia.

Ranita: Sorry, Wise Old Woman. (Sadly) You've already

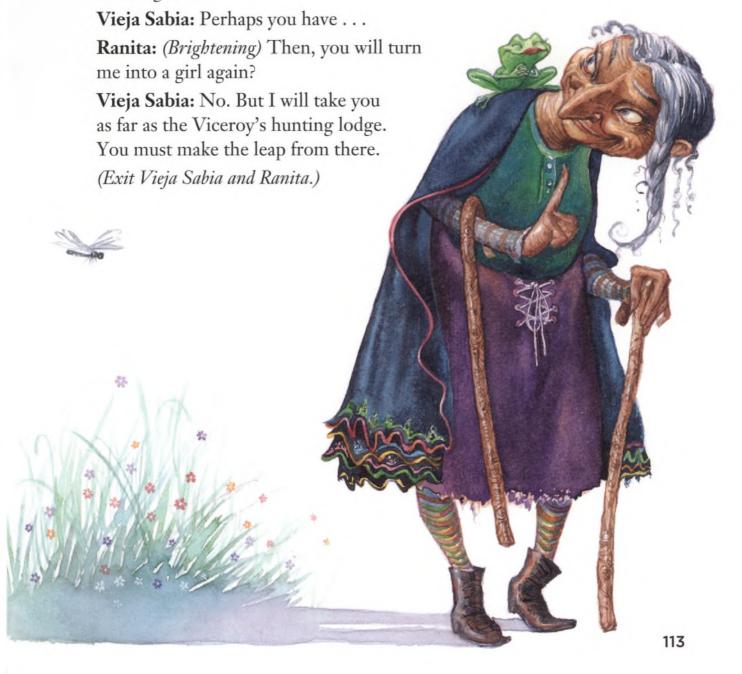
turned me into a frog. Isn't that enough?

Vieja Sabia: You wouldn't be a frog if you hadn't refused to

give me a drink from this well, so long ago.

Ranita: I was a selfish child then. I have paid for that, haven't I? I have learned what it is like to be alone

and forgotten.





## Scene 2

Hunting lodge with Viceroy, his wife, noblemen and women, all seated at long banquet table. Servants scurry in and out with bowls of food.

**Servant One:** (Placing bowl of soup before Viceroy) Sopa, Señor?

**Viceroy:** (*Exasperated*) *Sí*, *sí*. Where is Felipe?

Viceroy's Wife: (Wistfully) Dear boy. He is probably feeding

the birds.

Servant Two: (Aside) To the cat.

Servant One: (Muffles laugh)

(Enter Felipe.)

Felipe: I am famished. What a day I've had today. First, I lost

my golden arrow-



(Shouting from the kitchen can be heard.)

Felipe: (Louder)—then I met this ridiculous, demanding—

(Enter Ranita, running from the kitchen chased by cook and servants.)

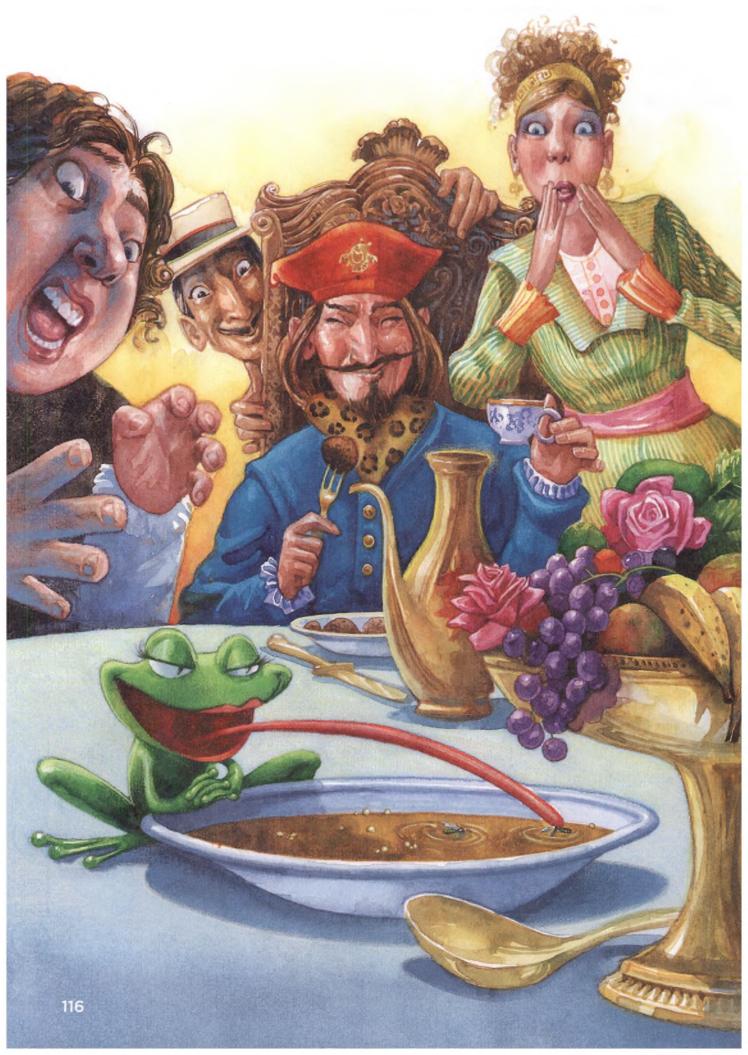
Felipe: (Slack-jawed)—frog.

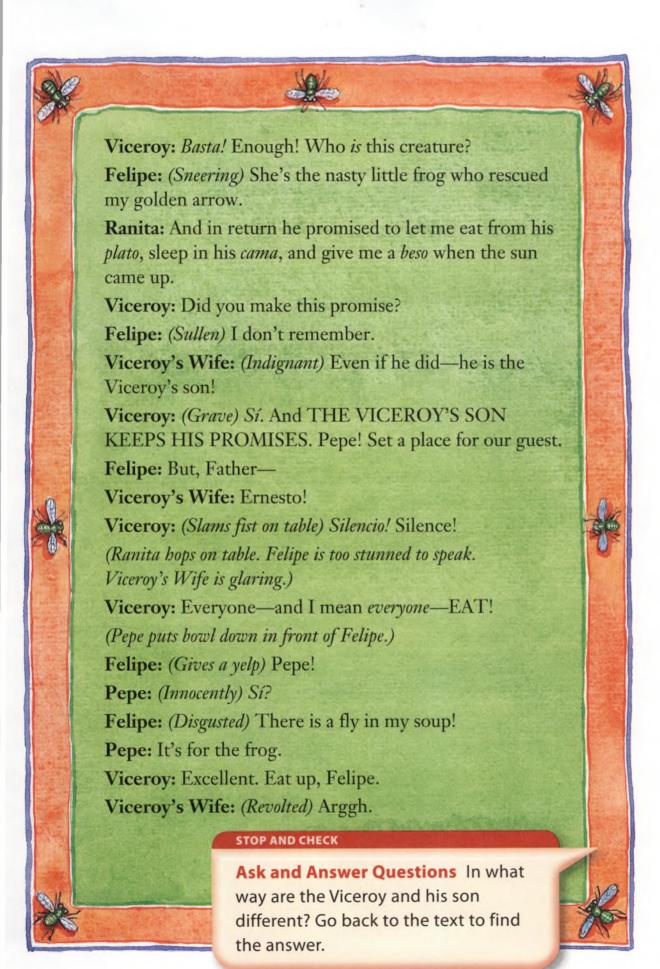
Cook: You hop back here! (To servant) Stop her, right now!

Servant One: (Tries to catch frog) Aaaaayyyy! She's a slippery one!

Servant Two: Oooooeeeeee! She bit me!

**Cook:** Get her, Pepe. (Pepe catches Ranita under the table, smiles, and lets her go. A commotion follows as the cook and servants chase Ranita.)



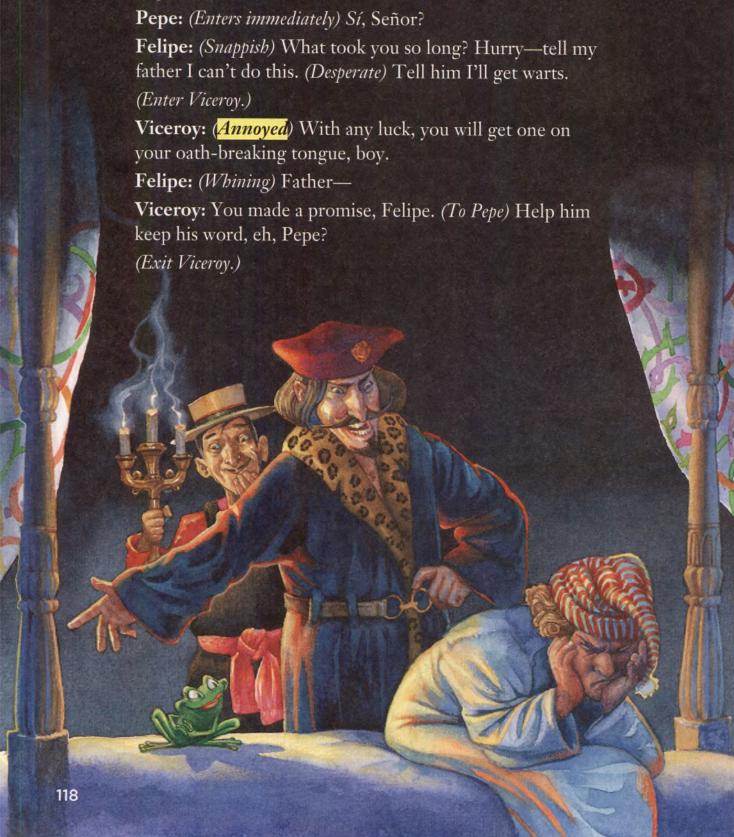




(Felipe's bedroom)

Felipe: (On bed) I refuse to sleep next to a FROG.

Pepe!!!!!!!



**Felipe:** (Throws pillow at Pepe. Falls on bed and begins to wail.) AAAAAAAYYYYYYYY!

Pepe: (Blows out candle and sits in chair.) Hasta mañana . . .

until tomorrow. Sweet dreams, Felipe.

**Felipe:** (*Growls*) I will dream of roasted frog legs.

Ranita: I'm telling.
Felipe: Bug breath!
Ranita: Big baby!

Pepe: (Sighs) It's going to be a long night.



### (Next morning)

Ranita: (Cheerful) Despierta, wake up! It's "beso time!" [Felipe rubs eyes, sees Ranita, and shrieks.]

Felipe: (Whimpers, clutching his blanket) It wasn't a bad dream, after all. Forget it, frog! I am not kissing you!

Ranita: (Stubbornly) You promised.

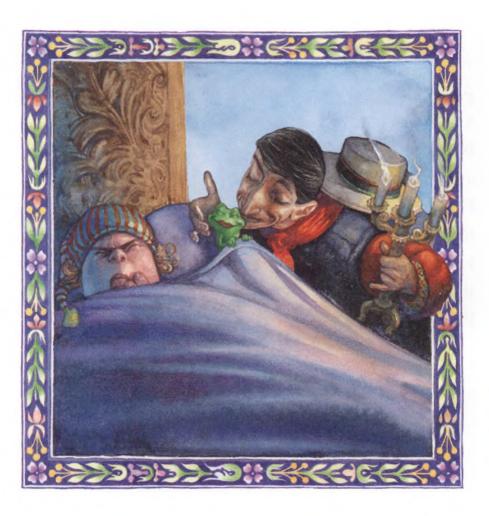
Felipe: Well, (Smiles slowly) I've just had a better idea.

(Kicks chair to wake his servant) Pepe!

Pepe: (Groggy) Señor!

Felipe: You are sworn to obey me in all things, si?

Pepe: (Confused) Sí, Señor.



**Felipe:** (*Smug*) KISS . . . THE . . . FROG.

(Pepe shrugs and kisses Ranita's cheek.)

(No longer a frog, Ranita is now a beautiful Mayan princess.)

**Felipe:** (Dazzled) I—but who? (Bowing) Allow me to introduce myself, I am—

Ranita: —the Spanish Viceroy's Rotten Son. And I am . . . the Mayan Emperor's Lucky Daughter.

(Felipe and Pepe fall on their knees.)

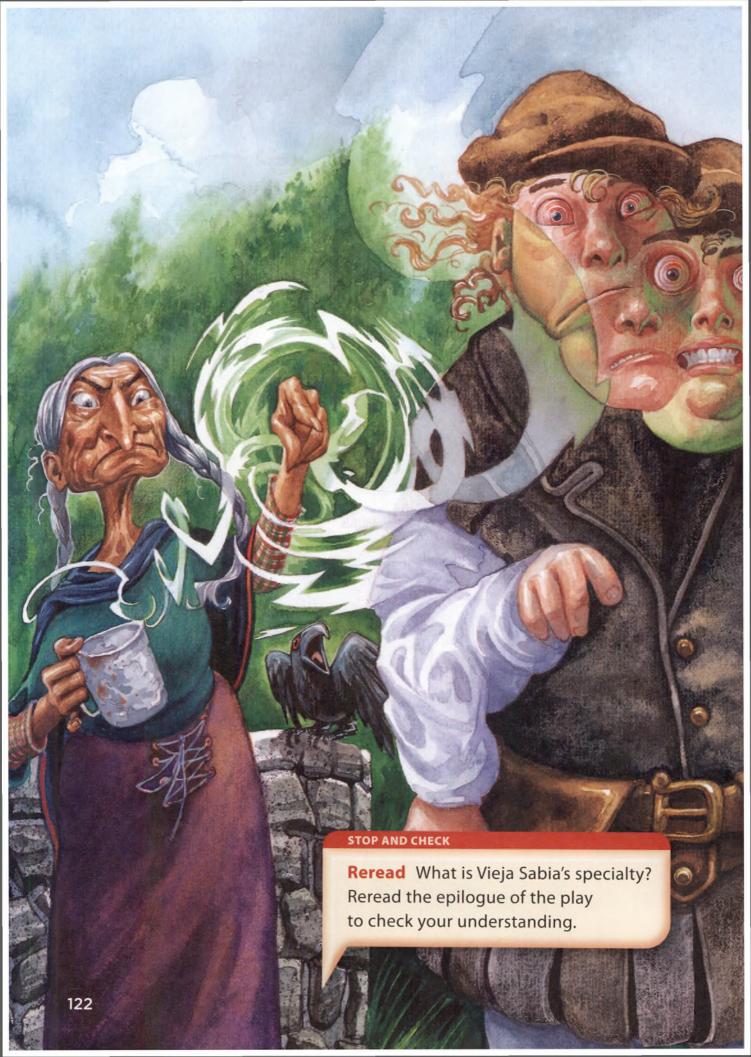
Ranita: I have been enchanted for 200 years.

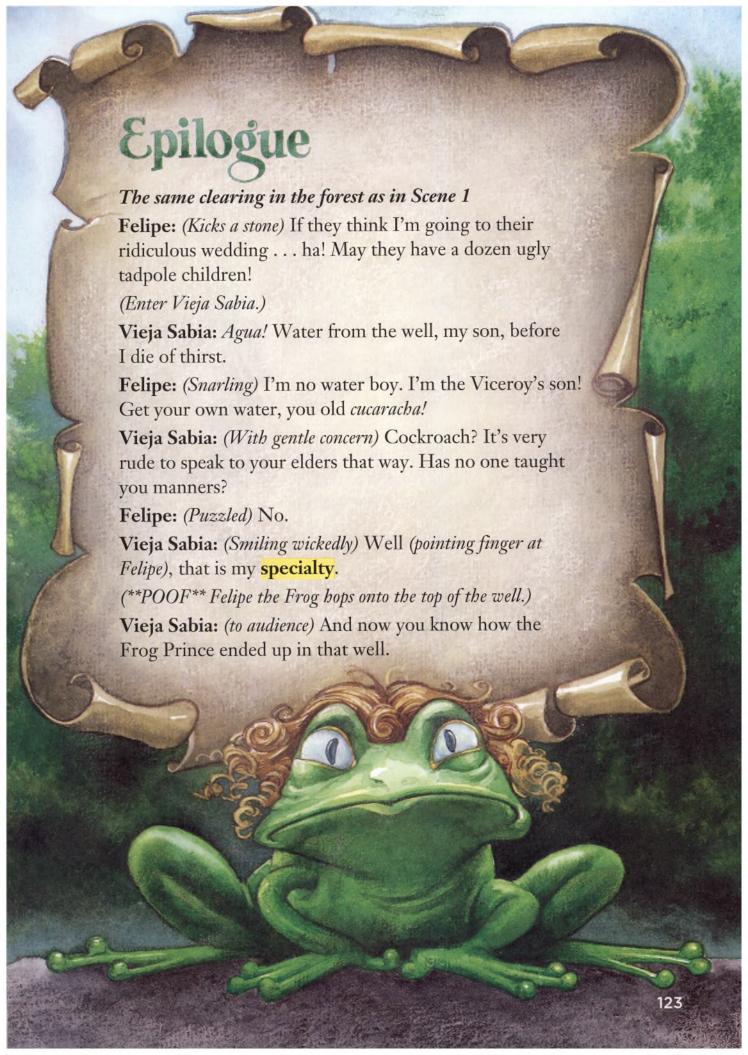
**Felipe:** (*Looks up*) You've been a frog for 200 years? What's so LUCKY about that?

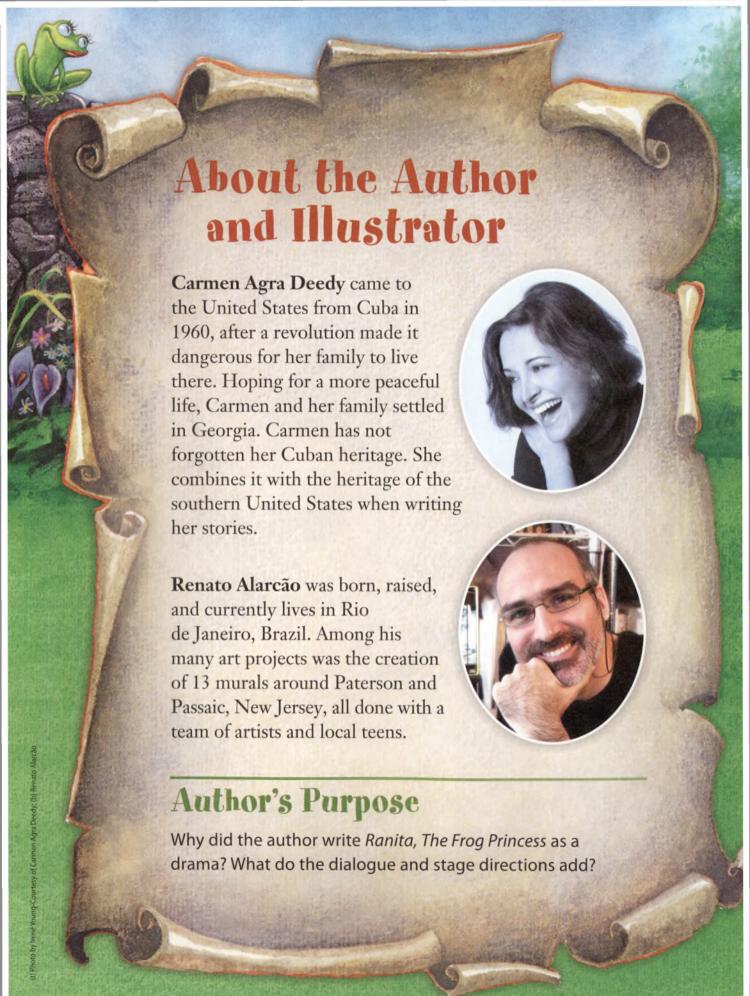
**Ranita:** I'll tell you. As a princess, I could have ended up the wife of a spoiled brat like you. Instead, I found myself a prince . . . (*Takes Pepe's hand*) a prince of a husband, that is.

(Pepe kisses the Princess's hand, while Felipe has a screaming tantrum.)









# Respond to Reading



Clue

Clue

Clue

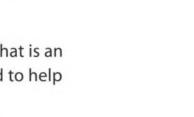
Theme

### Summarize

Summarize *Ranita, The Frog Princess*. Include the most important details from the play. Information from your Theme Chart may help you.

### **Text Evidence**

- **1.** Describe the elements that make *Ranita*, *The Frog Princess* a drama. **GENRE**
- **2.** Why does the Viceroy believe that Felipe should keep the promise that he made to Ranita? **THEME**
- 3. What is a synonym for the word scurry on page 114? What is an antonym for scurry? Use context clues around the word to help you. SYNONYMS AND ANTONYMS
- 4. Write about the message that the author communicates by having the wise old woman first turn Ranita and then turn Felipe into frogs. WRITE ABOUT READING



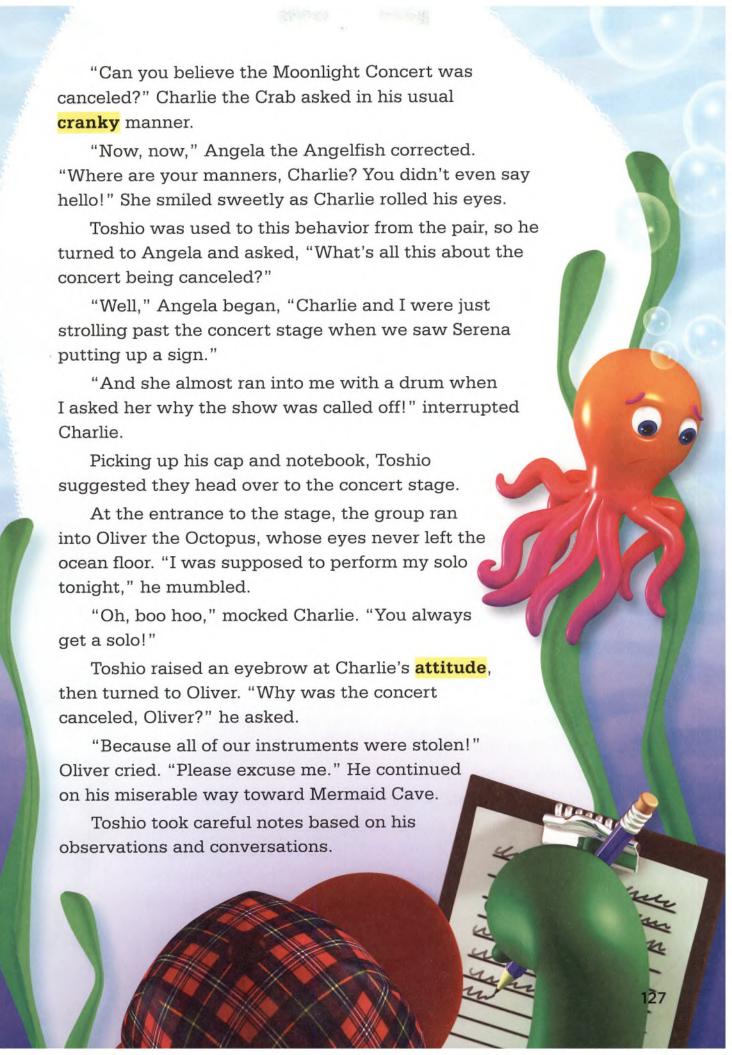


### **Compare Texts**

Read how a turtle goes about solving a mystery.

# The Moonlight Concert Mystery

The last rays of sunlight slipped down through the sea as Toshio the Turtle, world-famous detective, sighed with relief. The workday was finally over, and the Moonlight Concert would soon begin. He had been looking forward to this night for months, although he wished his friend Jack the Jellyfish could have joined him. After the concert Toshio was off to Florida for a much-needed break. As he was packing up, Angela and Charlie rushed into his office.



Suddenly, Serena the Starfish stomped toward the group. "Did you read the sign? The concert is *CANCELED*." Serena's words seemed harsh to Toshio, especially since she was the bandleader.

"But why?" Angela asked.

"I had no choice, Angelface—the instruments were stolen!" Serena explained. "Oliver told me about the incident."

"Why was Oliver here before you?" Toshio asked, scribbling in his notebook.

"A special guest offered to play during our show, so Oliver had to put off his solo until the next concert. He took it a little hard at first but later offered to set up the stage."

Charlie watched as Toshio jotted down the new information and rubbed his chin. "What's there to think about? It sounds like Oliver had a motive!"

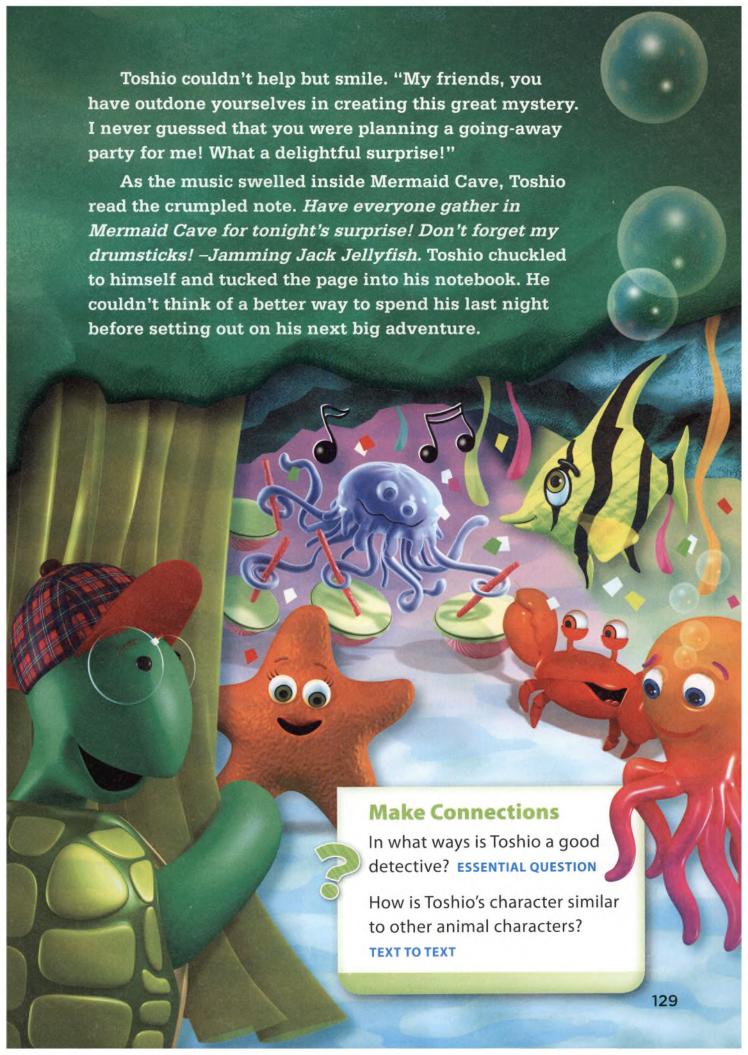
"A good detective never jumps to conclusions," Toshio replied.

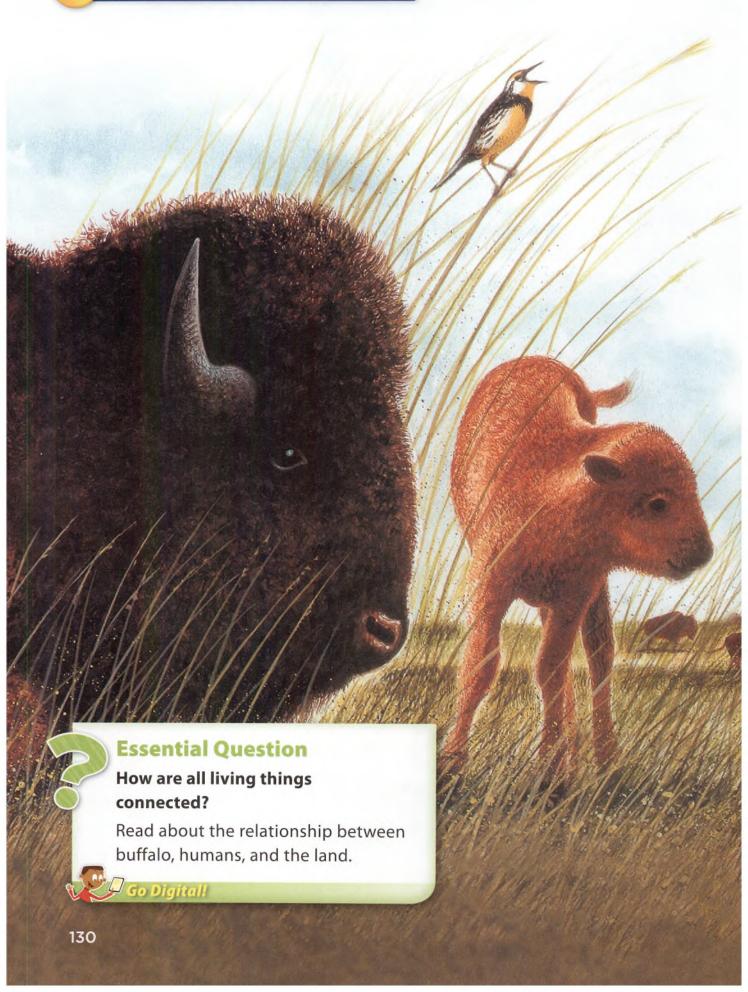
Finding no other clues, Toshio led the group toward Mermaid Cave. Serena stumbled over something that Toshio recognized immediately. "Is that a coral drumstick?"

The starfish blushed and picked it up. "Oh . . . so it is! The drummers will be thrilled we found it!"

Angela smiled uncomfortably as a drumbeat echoed from within the cave. "Did you hear that? Come on!"

Toshio paused to pick up a crumpled sheet of paper before following the others into the cave. As he pulled back the seaweed curtain, Toshio heard the coral hit the drums in a **familiar** rhythm. Suddenly, the lights came up, and everyone shouted, "Surprise, Toshio!"

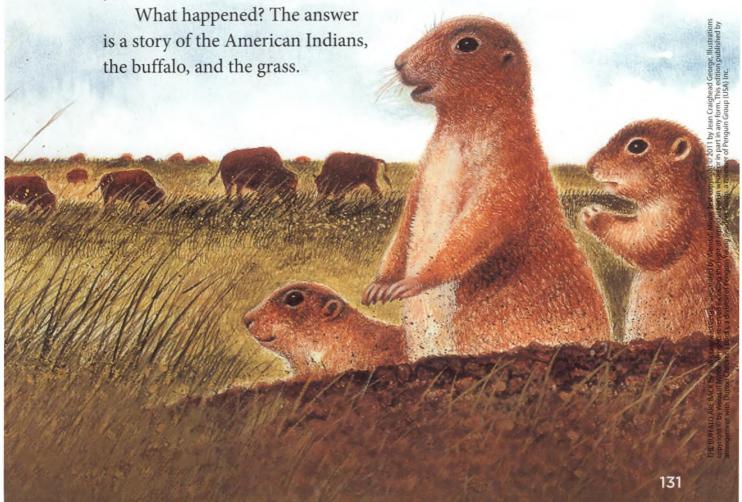




# The BUFFALO Are BACK

by Jean Craighead George • paintings by Wendell Minor

In a time long ago, an orange buffalo calf was born. He wobbled to his feet and blinked. A lark flew to the top of a six-foot blade of grass and sang as sweetly as a panpipe. A town of prairie dogs barked. The green-gold grasses of the plains **rippled** like waves from horizon to horizon. On that day in the mid-1800s seventy-five million buffalo roamed in North America. In little more than fifty years, there would be almost none.



### The American Indians

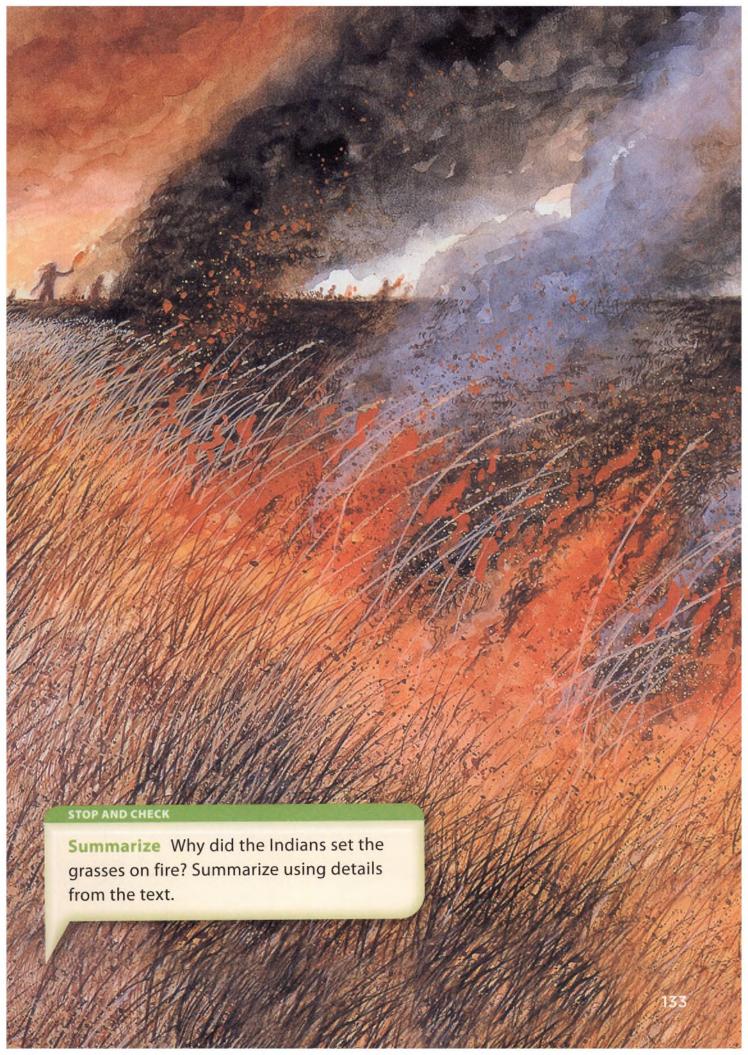
On the day that the calf was born the air was smoky. The Indians who lived on the plains were setting the grasses ablaze, as they had for thousands of years. The fire was good for the prairie. The calf may have been afraid of the flames, but they kept the trees from taking over the grasslands. The fire's ashes put nutrients into the soil, making the grass healthier for the buffalo that ate it.

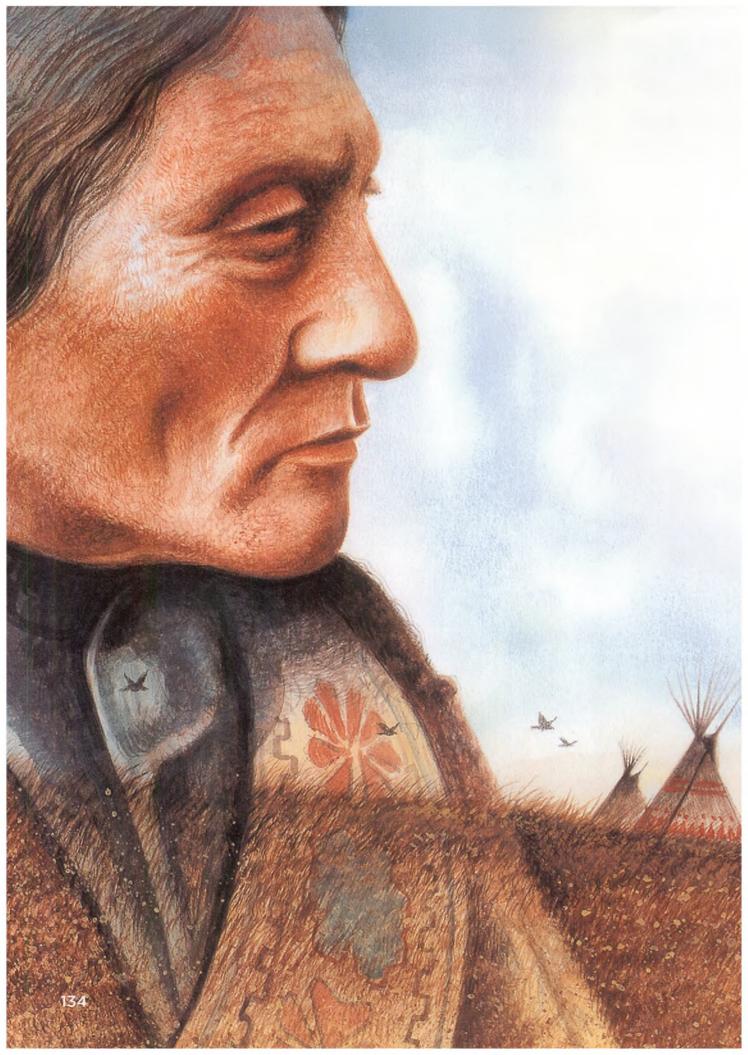
By taking care of the grass, the Indians took care of the buffalo. In return, the buffalo took care of the Indians and the plains. Buffalo were the Indians' food and were used to make their shelter and clothing. The buffalo never ate too much grass, and their sharp hooves helped rainwater reach into the soil, keeping the prairie healthy.

The orange calf learned to roll in a dust wallow. He watched the prairie chickens show off their

exotic feathers. From the Mississippi to the Rocky Mountains and from the Gulf of Mexico up into Canada, the buffalo herds grazed the Great Plains.







### The Buffalo

In the mid-1800s, change came to the plains. First it was white fur hunters. They stacked the beautiful buffalo hides in pointed canoes and sold them east for profit. Then the American explorers came, who shot many animals for fun. Buffalo made good targets for the hunters because they are big and often stand still.

But it was settlers from the East and the American government that killed almost all of the buffalo herds. After the Civil War, the government bought huge tracts of land from the Indians. They forced many Indians to go to reservations and sold the land to settlers. Families from Europe and the East Coast rushed west to settle the rich black prairie land.

But there was trouble on the plains. The government broke its treaties with the Indians. So the Indians fought back and won several battles against the United States Army. Then the government saw another way to defeat the Indians. Soldiers and settlers were encouraged to shoot every buffalo they saw, or drive whole herds over cliffs. Without the buffalo for food, shelter, and clothing, the Indians could not survive on the plains.

Most of the last wild buffalo went down in dust and gunfire.

Said the great Sioux Chief Sitting Bull, who defeated General George A. Custer at the battle of Little Big Horn: "A cold wind blew across the prairie when the last buffalo fell—a death-wind for my people."

And, the settlers soon discovered, a death-wind for the prairie.



### The Grass

With the death of the buffalo, the Indian Wars were over. The settlers faced a new fight—the battle of the grasses. Over the eons the prairie grasses had adapted to the Great Plains' frequent droughts by growing tough roots to hold in moisture. These roots were wide and deep and held the rich soil in place. The buffalo's sharp hooves, and the Indians' prairie fires, had helped keep the grasses healthy. But the new settlers did not understand the importance of the grass.

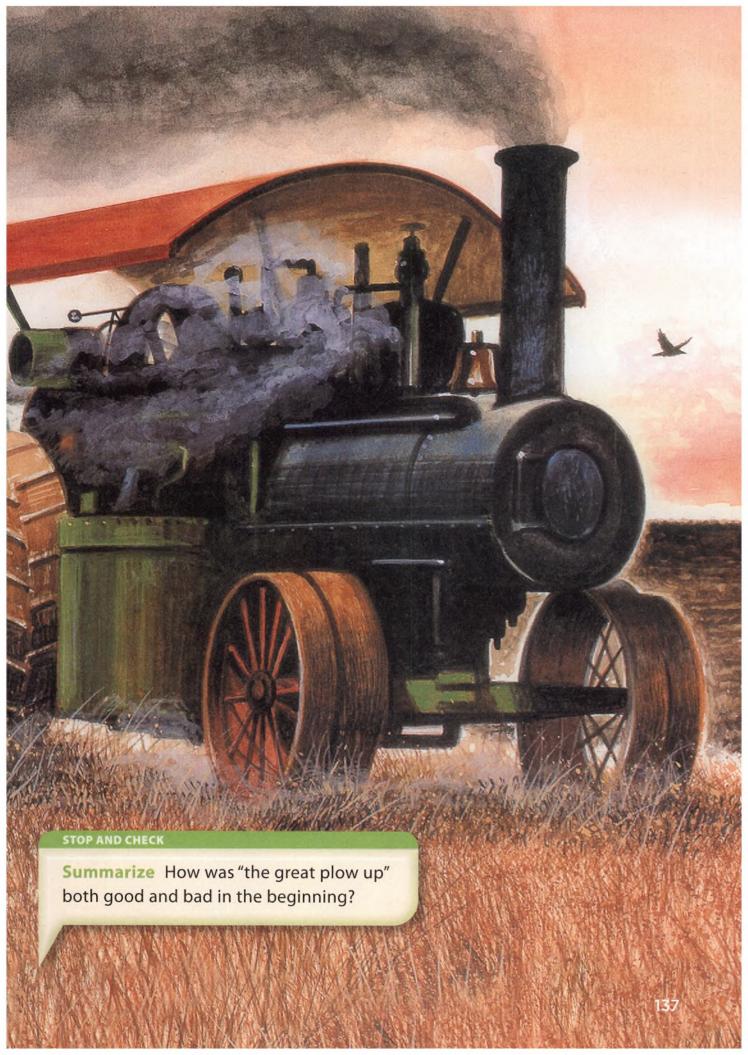
Early settlers were ranchers and cowboys. They brought fences and cattle to the plains. The cattle did not roam, so they ate too much of the grass within their fences. Their flat hooves packed the earth. Air and rainwater no longer reached into the soil.

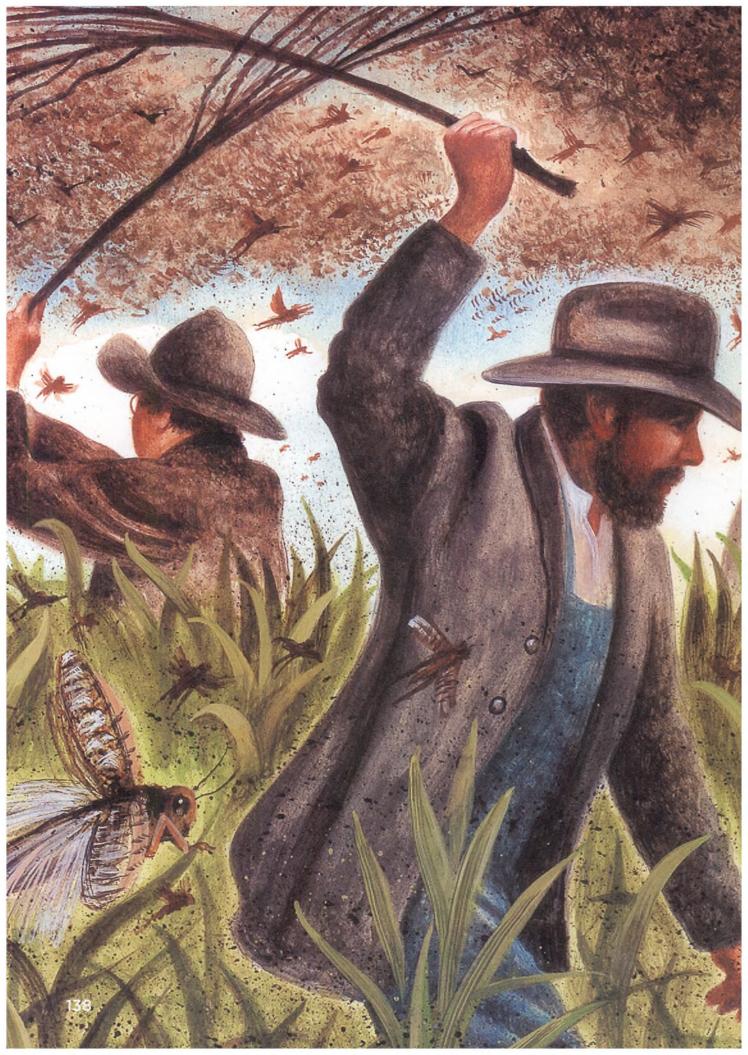


Later settlers wanted to farm the land, so they tore out the grass and planted crops to sell. Steel plows and steam tractors were invented to conquer the grassland and "the great plow up" began. Wheat, corn, and soybeans were planted. These crops have shallow, **fragile** roots.

At first, the crops **flourished** in the prairie sunshine and timely rains. New railroads carried the harvests to distant markets.

Now not one orange buffalo wobbled to its feet. The larks that had once eaten the insects living in the grass did not sing. The prairie dogs were silent. Without the buffalo, without the grasses, and without the Indians to care for them, the prairie was in danger. The settlers would soon learn why.







Drought came, as it had before. Billions of grasshoppers swept down on the plains. Long ago, when drought came and grasshoppers chewed the healthy grass, the plants would grow back. Their tough roots always survived. But when the fragile crops were chewed by grasshoppers, nothing grew back.

Suddenly, the grasshoppers laid eggs and flew on. The farmers replanted their crops. They did not know they had begun to destroy the prairie.

When the buffalo lived on the prairie, their sharp hooves helped rain reach deep into the earth, and the tough roots of the grass held in the wet. Now, no moisture remained in the soil. The farmers' crops withered and died.

In the 1930s, the plowed earth finally **crumbled** to dust. The wind eroded the land, picking up the dust and boiling it into terrifying black clouds. The clouds rained dirt. Barns, farms, houses, and towns were buried beneath the dust. People coughed, choked, and grew ill. Many died.

Hungry and penniless, plains farmers and townsmen packed up their belongings and sold their worthless land to the government. The prairie soil had blown away. The land was no longer rich. The farmers climbed into old cars and left. The "great plow up" had been a disaster. In just over fifty years, it had destroyed the buffalo, the protective prairie grasses, and the Indians who had cared for both.

What could be done to save the prairie?

### The Prairie Comeback

In the beginning of the 1900s, Americans elected a president who had once been a hunter on the Great Plains. He knew and loved the land and wanted to protect it for future generations. Nature-loving President Theodore Roosevelt especially wanted to save the buffalo. He was very fond of the great American grazer with its humped back and shaggy coat. So, he sent out scouts to look for wild buffalo.

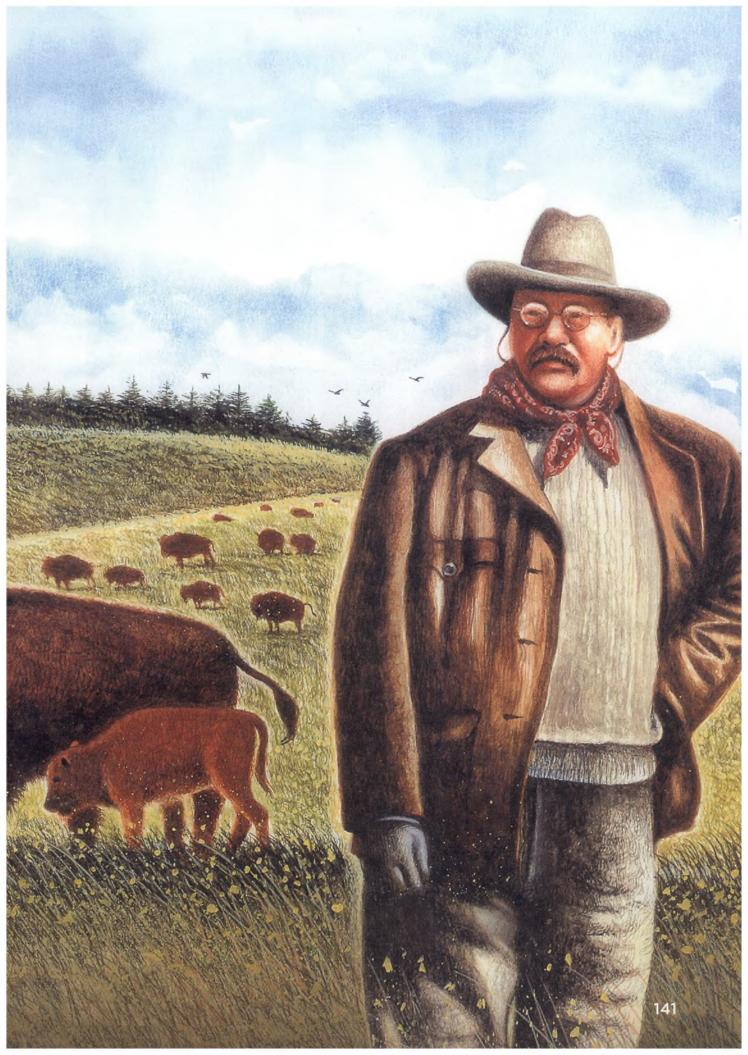
The scouts came home with nothing—all the scouts but one. A naturalist named W. T. Hornaday looked and looked and would not give up. On a tip from a Crow Indian he rode his horse into a secluded meadow in Montana, a place that had been hidden away from the world. There before him grazed three hundred buffalo. A little orange calf wobbled to her feet and blinked. A lark flew to a blade of grass and sang as sweetly as a panpipe.

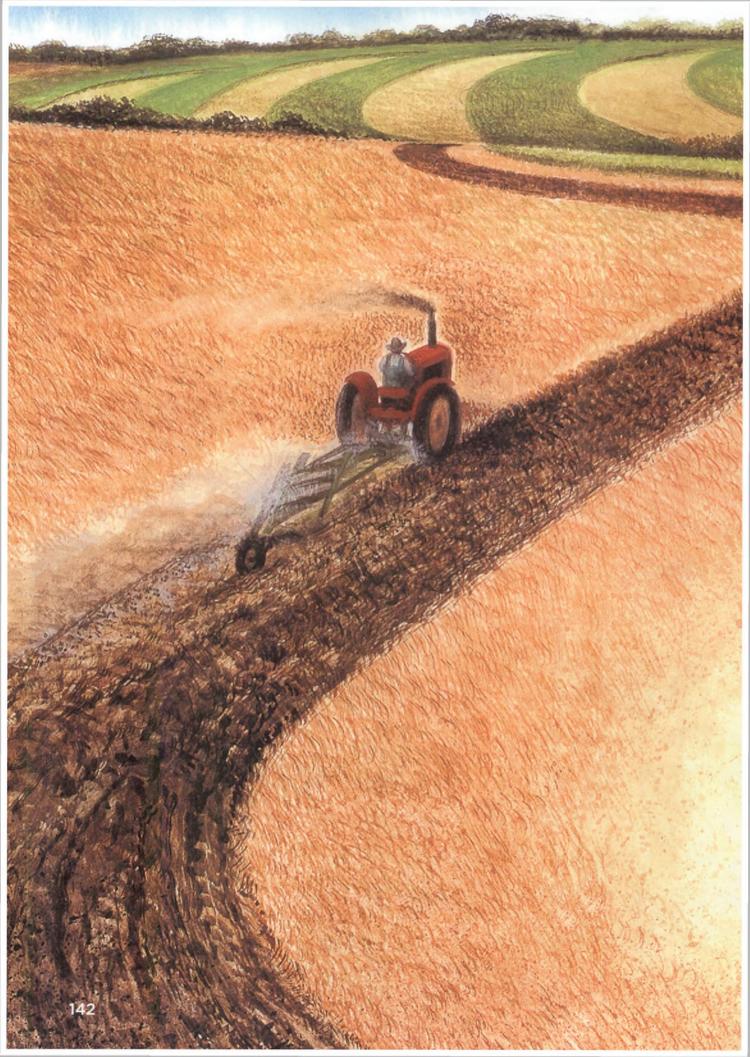
There had been seventy-five million buffalo on the plains. Now there were three hundred left in the wild. People who understood the land, led by Hornaday, knew the buffalo had to be saved. The president helped.

Roosevelt established the National Bison Range in Montana and made it illegal to shoot buffalo. Over the years, more land was set aside in western states for the great grazing herds, which were beginning to grow.

Thanks to Roosevelt, the orange calf in Montana romped with other calves and rolled in the dust. Her herd grew in numbers. Many were sent to national parks and wildlife refuges that had been established to start new herds.









As the dust storms attacked farms and cities, the government worked to save the prairie. Farmers were taught to plant and grow crops in curves, instead of straight lines. The contour plowing helped to prevent dirt from blowing

away. Government workers planted trees with deep roots, to hold moisture in the soil and break the wind. When the rains returned, farmers planted grass between their curving rows of corn to hold the soil in place. Crops flourished again.

One day a young girl walked into her house in Kansas waving a six-foot blade of grass.

"Where did you find that?" her father asked. "That's buffalo grass. It's been **extinct** for years—or so we thought."

"In my schoolyard," she said.

flourished, tall and graceful.

"That is land that was never plowed," her father told her.

Like many older people living on the prairie, he longed to see the beautiful grasses again.

"Let's try to find more of these tall native grasses," he said. Perhaps the tall grass could come back to the plains.

People like the girl's father rounded up kids, parents, botanists, farmers, and merchants. They searched the places the plows had never reached—graveyards, old railroad beds, and crumbling fencerows. There they found small stands of the native grasses: bluestem, gamma, bunch, and buffalo grass. They raised them and sowed the seeds on abandoned farms and public lands. The grasses

Groups that work to protect nature purchased thirty-thousand acres where native grasses had been grown. This nature preserve, in Kansas, is called the Tall Grass Prairie Preserve. Into the tall grass they released three hundred buffalo.

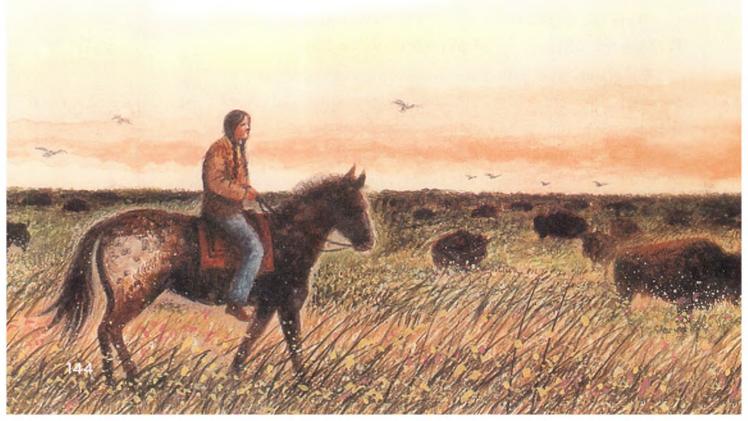
One morning not too long ago, a young man just out of graduate school galloped his horse across the Prairie Preserve, counting buffalo for the buffalo census. Suddenly he reined in his horse. An orange calf wobbled to his feet and blinked.

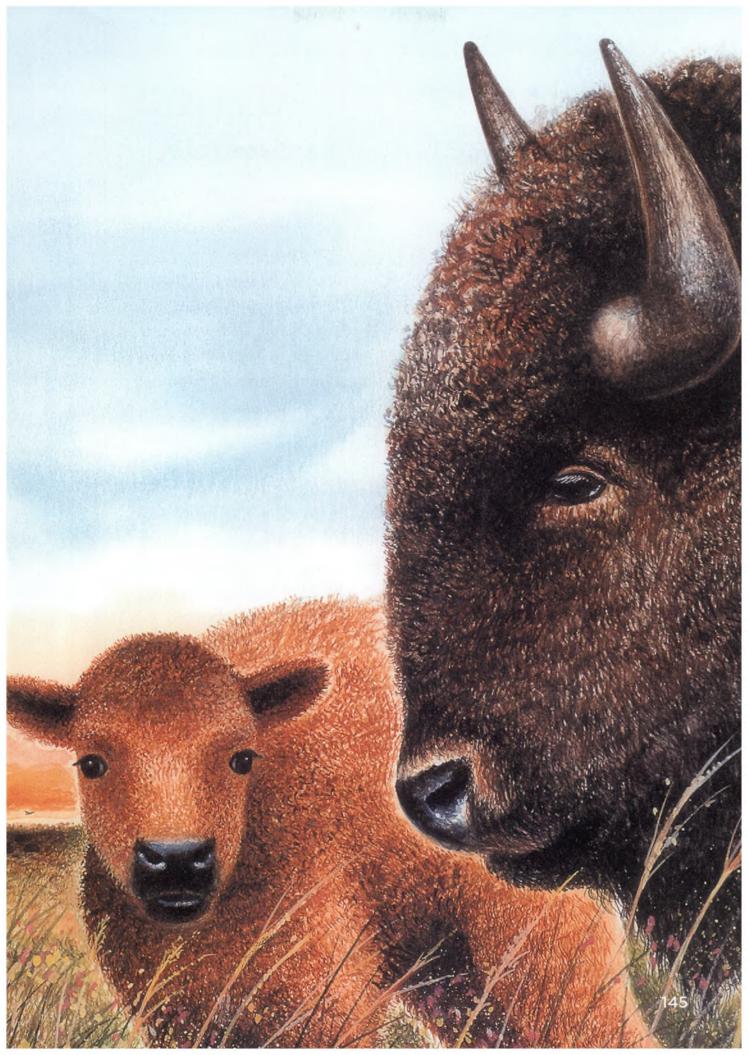
"Welcome, little calf," the Wichita Indian youth called. "You are America's two hundred thousand and eighty-first buffalo."

A lark flew to the top of a six-foot blade of grass and sang as sweetly as a panpipe. The buffalo are back.

#### STOP AND CHECK

Make Predictions What can you predict about the future of the buffalo? Use the text to support your response.





# ABOUT THE AUTHOR AND ILLUSTRATOR



Jean Craighead George started writing when she was in the third grade, and she's been writing ever since. As a child she enjoyed camping and hiking, and soon she found a love for reading and writing about the great outdoors. In all, she's written more than 100 books! George says that a young

person who wants to be a writer should "read, write and talk to people, hear their knowledge, hear their problems. Be a good listener. The rest will come."



Wendell Minor grew up on a farm in Illinois on flat land much like the plains described in *The Buffalo Are Back*. One of his earliest memories is of watching a mother robin feed her babies outside his classroom window. He was supposed to be reading, but watching nature was more

fascinating to him. Now he illustrates nature scenes in books and hopes they will keep young people reading instead of looking out the window—at least for a little while.

# Author's Purpose

Did the author write *The Buffalo Are Back* mainly to inform, entertain, or persuade? Use details from the selection to support your response.

# RESPOND TO READING

## Summarize

Use important details from the selection to summarize *The Buffalo Are Back*. Information from your Main Idea and Key Details Chart may help you.

Main Idea

Detail

Detail

Detail

# Text Evidence

- **1.** How do you know that *The Buffalo Are Back* is narrative nonfiction? **GENRE**
- 2. What is the section titled "The Grass" on pages 136–139 mainly about? Use details to support your response. MAIN IDEA AND KEY DETAILS
- **3.** Reread the first paragraph on page 143. What does the word *contour* mean? How can using sentence clues help you figure out the meaning? **SENTENCE CLUES**
- **4.** Use details from "The Prairie Comeback" on pages 140–145 to write about how buffalo were reintroduced to the plains. **WRITE ABOUT READING**

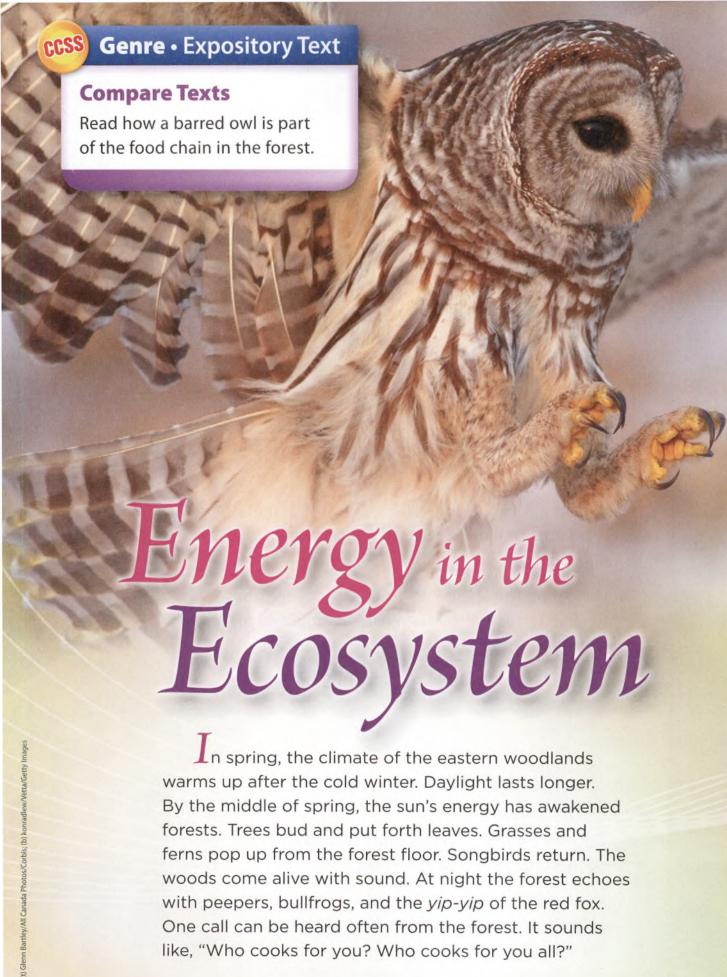
#### **Make Connections**

Tell how humans, buffalo, and the land are connected. **ESSENTIAL QUESTION** 

How would people be affected if certain animals were removed from our ecosystem?

TEXT TO WORLD





warms up after the cold winter. Daylight lasts longer. By the middle of spring, the sun's energy has awakened forests. Trees bud and put forth leaves. Grasses and ferns pop up from the forest floor. Songbirds return. The woods come alive with sound. At night the forest echoes with peepers, bullfrogs, and the vip-vip of the red fox. One call can be heard often from the forest. It sounds like, "Who cooks for you? Who cooks for you all?"

#### HOO HOO Hoo-hoo! HOO HOO Hoo awww!

This is the call of the barred owl, the night hunter of the forest. From its perch high in oak or hickory trees, the owl studies the forest floor. Far below, voles and mice eat grasses and grubs. They do not see the hunter watching them.

# The Living Woodlands

All forest plants, animals, and other *organisms*, or living things, depend on nonliving elements. A forest's **ecosystem** needs a balance of sunlight, moisture, temperature, and soil nutrients. Any **imbalance** in these nonliving elements will harm the forest. For example, a **drought**, or long period without rain, will kill plants. Without plants, animals die.

In forests of the eastern United States, energy from sunlight and nutrients in water and soil allow plants to grow. These plants form the first link in the forest food chain. A food chain is the path that energy takes from one organism to another in the form of food. Energy from the sun flows through the food chain, joining all the plants and animals in an ecosystem. Several links in the chain join plants with the creature that sits in the treetops, the barred owl. The energy from this bird's feeding plays an important role in the first links of the food chain. How?



# Forest Food Chain

The forest food chain begins with organisms that make their own food. They are called *producers*. Grasses, trees, and other green plants are producers that feed forest animals. Organisms that cannot make their own food are known as *consumers*. Any animal that eats plants or plant products is a consumer. Some forest consumers, such as rabbits, are *herbivores* that eat only plants. Other mammals, such as voles and mice, are *omnivores*. They eat plants as well as insects, worms, and grubs.



# Back to the Cycle

Fungi play a different role in the food chain. They are *decomposers*. Decomposers recycle all wastes and remains from plants and animals back into the ecosystem. The dead material becomes soil nutrients, which help plants grow. With sunlight and water, the cycle begins again.

When an owl eats a mouse or vole, it digests the meat and organs of those animals. However, owls cannot digest fur, teeth, or bones. These are formed into oval pellets. The owl throws up these balls of fur and bone after every meal. Owl pellets are often found on the ground around owl nesting places. They provide food and shelter for moths, beetles, and fungi.

If you are near a forest at night,
listen carefully. Do you hear it?
"Who cooks for you? Who cooks
for you all?"

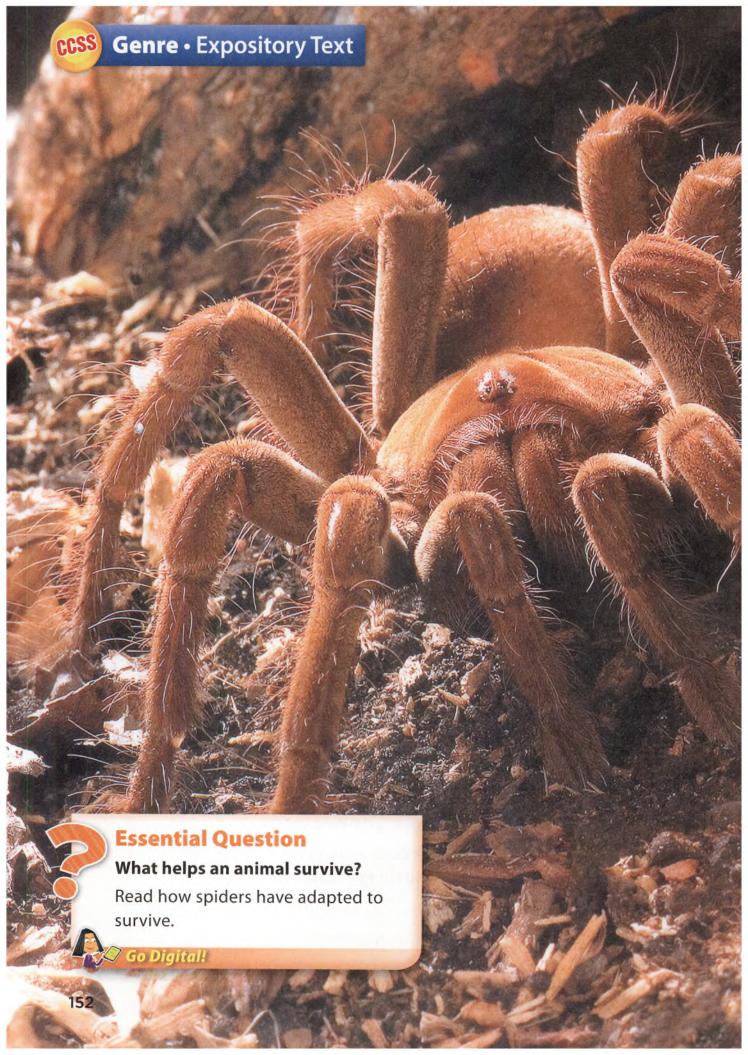
Right: Owl pellets are an important source of food and shelter for some insects and fungi. The bones, teeth, and fur that make up each pellet cannot be digested by owls.



## **Make Connections**

How does a food chain connect all living things? **ESSENTIAL QUESTION** 

How is a forest's ecosystem similar to other ecosystems? **TEXT TO TEXT** 



# Spiders by Nic Bishop

Some spiders are as small as a grain of sand. The biggest, the Goliath birdeater tarantula from South America, is as big as a page in this book.

Yet all spiders share similar features.

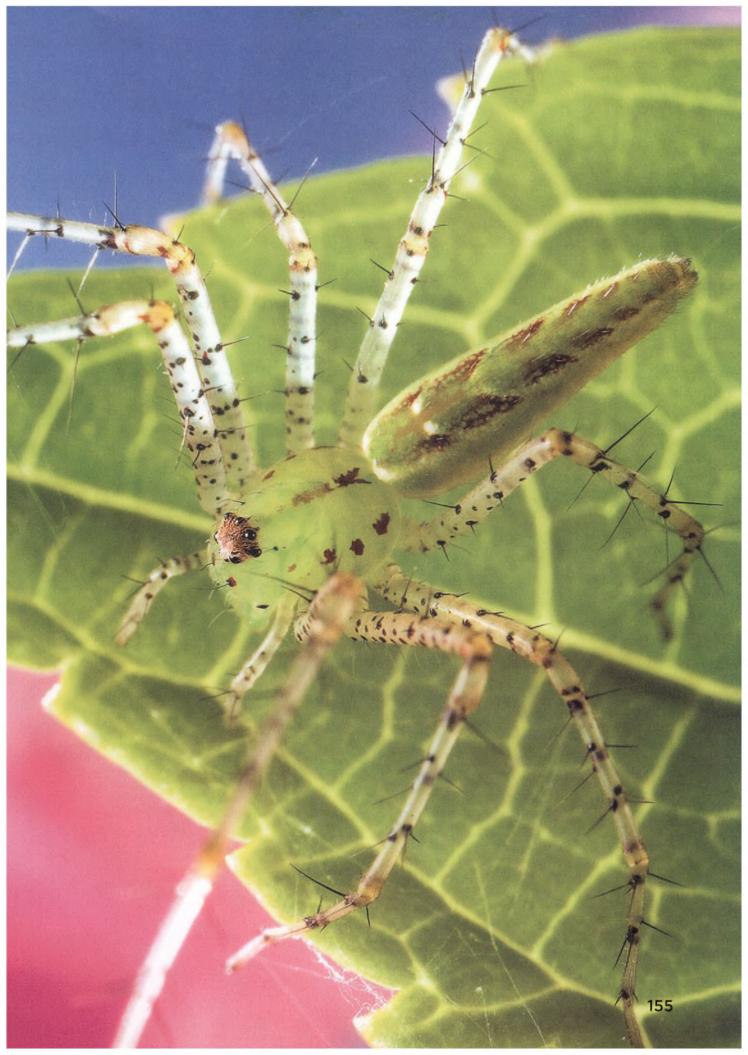
They have eight legs, fangs, spin silk, and eat other animals. At first you might confuse them with insects. But it is easy to tell the difference. Insects have six legs; spiders have eight. And spiders never have wings.

The Goliath birdeater tarantula likes to stay near its burrow on the rain forest floor. It waits for prey to come close enough to grab.

153

A spider's body has two main parts. The back part is called the abdomen. This contains the heart, which pumps pale blue blood (yes, blue!), and the spinnerets, which make silk. The front, or head part is called the cephalothorax. It has the spider's legs, eyes, fangs, brain, stomach, and two short arms, called pedipalps, which a spider uses to hold its prey.

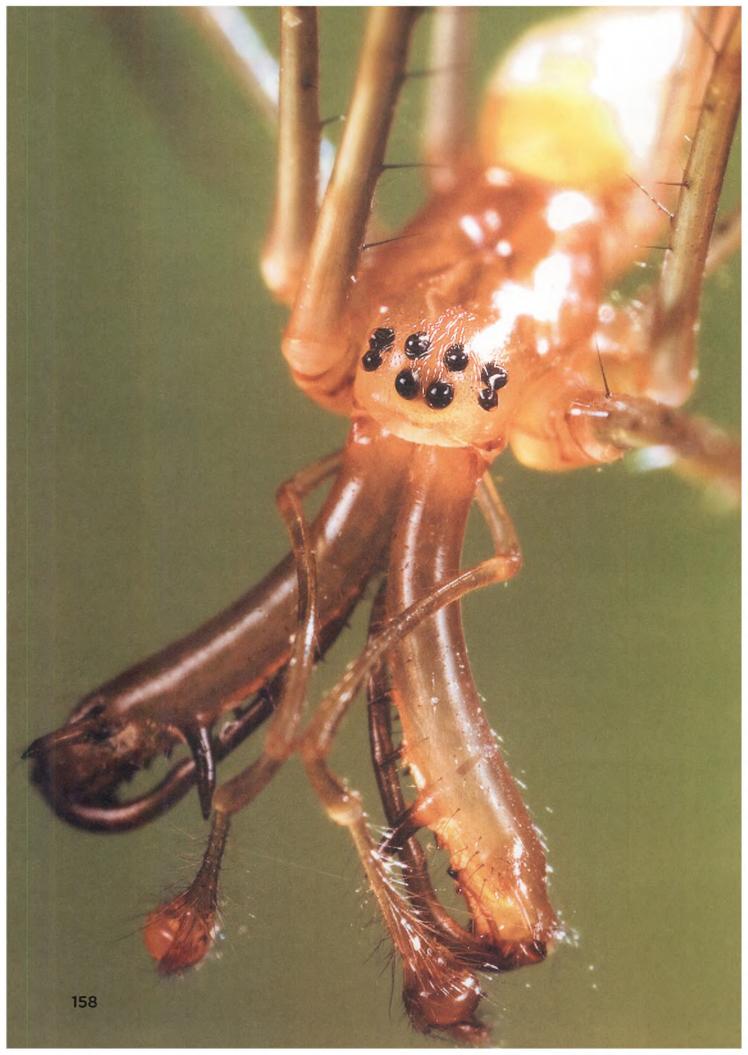
The green lynx spider is perfectly camouflaged when it hides among leaves waiting to pounce on an insect. The long black spines on its legs are thought to help it trap its prey.



Spiders eat in an unusual way. They don't chew and swallow food like you do.
They drink it. First the spider stabs its prey with its fangs and injects poisonous venom to stop it from moving. Then it dribbles digestive juices on its meal. This turns the animal's insides into soup, so the spider can slurp them out.
Afterward, all that's left of the prey are empty bits of skin and some wings.







Most spiders have eight eyes, so they can look several ways at once. But a spider cannot see as clearly as you. Their eyes are usually very small and simple. Spiders will notice if something moves nearby, but they often cannot see shapes very well.

A few spiders have no eyes at all. They live deep inside caves where it is completely dark all the time. But they have no trouble catching prey. That's because spiders have other amazing senses to rely on.

The long-jawed spider is a web builder. It gets its name from the very long jaws that hold the two thin fangs, which you can see folded underneath. A spider does not have a nose or ears, at least not like you do. Even so, it has extraordinary senses all over its body. Take a close look. You will see this spider is covered with hairs. Many of these sense touch, vibrations, and sounds. Hairs on a spider's legs can sense the sound of a flying insect.

Other organs on the feet can smell and taste things just by walking on them. A spider can even recognize the taste of its own silk by touching it.

This huntsman spider is beautifully camouflaged on a rain forest leaf. Hairs on its body and legs will sense the vibrations made by the footsteps of an approaching insect.







Spider skin is made of tough stuff called chitin.

It is the spider's personal body armor as well as its skeleton. Spiders don't have bones inside their body for support. Their hard skin is like a skeleton they wear on the outside. It protects and supports the spider's body.

This hard skin does not stretch, so a spider must molt now and then as it grows. The spider finds a safe place and then slowly squeezes out of its old skin. It can take an hour and is very stressful. The spider must even shed the skin covering its eyes and the inside of its mouth. Afterward, its new skin is damp and soft like putty. The spider rests until its new skin dries and hardens.

#### STOP AND CHECK

**Summarize** Why do spiders need to find a safe place to molt? Summarize using details from the text.

A cobalt-blue tarantula has to roll onto its back to molt. It is pulling the old skin off its legs. Its new fangs are pure white, but will turn dark later.

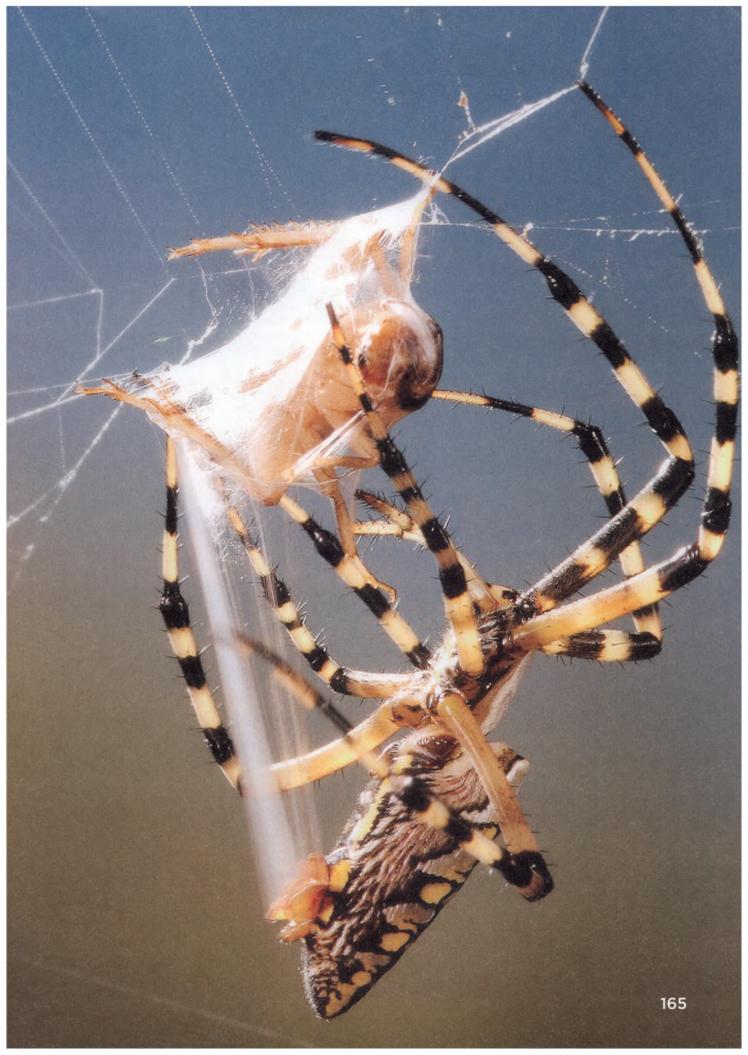
Silk is the secret of spider success.

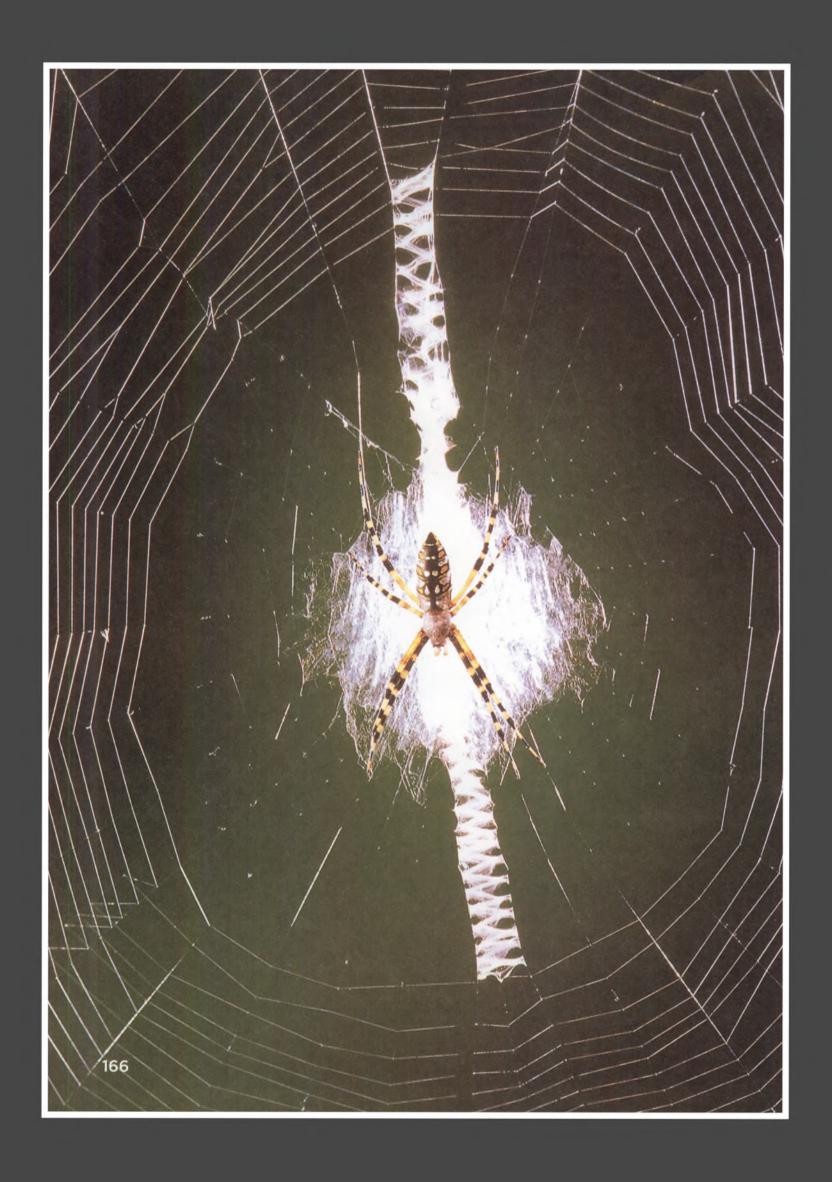
Spiders make several different types, which can be sticky, stretchy, strong, or fluffy.

Each has a special use: for making egg sacs, wrapping prey, building webs, or making draglines that the spider trails as it walks along or jumps.

Silk is made by the spinnerets on the spider's abdomen. Liquid threads come out of dozens of tiny nozzles and turn solid as the spider pulls them. Spider silk is an amazing substance. It can be stronger than steel and can stretch twice its own length. Best of all, it's recyclable. A spider can eat its silk when it has finished with it.

A black-and-yellow garden spider will use its legs to turn its prey as it wraps it with silk from its spinnerets.





Spiderwebs are made of silk. Some webs look like old tissue paper draped on hedges. Others hang in messy tangles in the corner of your garage. But the best known is the orb web with its wonderful spiral of sticky threads. A large orb web may contain more than 100 feet of silk thread and can take about an hour to build.

Most spiders build their webs at night, working by touch. Once

finished, the spider sits in the middle or at the edge and holds the web so it can feel the vibration of a trapped insect. If the prey is a dangerous wasp, the spider may cut it free. Otherwise it wraps the prey in silk and bites.

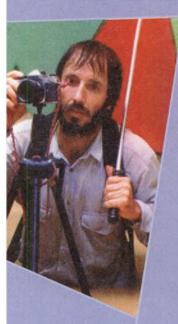
#### STOP AND CHECK

**Reread** Why don't orb spiders get trapped in their own webs? Reread the caption to check your understanding.

Orb web spiders have special claws and nonstick feet so they can walk on their webs without getting stuck.

# About the Author





# A Creepy-Crawly Kind of Guy!

Nic Bishop is an author and photographer of nature books for kids. He also happens to really love spiders! What some people find creepy and gross is utterly amazing and intriguing to Nic.

Born in England, Nic has lived and traveled around the world. Some of his trips have been in search of the most interesting spiders on the planet. Sometimes his wife, a biologist, comes along. He seeks out spiders and other creatures to show kids what the natural world is all about.

Nic has even raised his own spiders at home. He does this so that he can take photos of them doing things like molting and laying eggs. It is hard to get pictures of spiders doing these things in the wild. Most of Nic's spiders stay in their cages, but a few pesky ones have found ways to escape! Don't worry, though—Nic has always been able to find and catch the little runaways!

## **Author's Purpose**

Nic Bishop includes dramatic photographs and captions alongside the text. How do these text features give you a better understanding of spiders?

# Respond to Reading

## Summarize

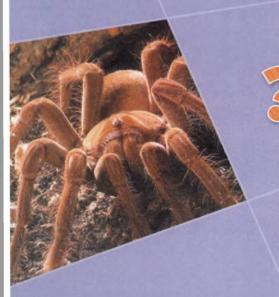
Use important details from *Spiders* to summarize how spiders have adapted in order to survive. Information from your Main Idea and Key Details Chart may help you.

Main Idea	
Detail	
Detail	
Detail	

## **Text Evidence**

- 1. Explain what makes Spiders an expository text. GENRE
- 2. What is the main idea of the first paragraph on page 164? MAIN IDEA AND KEY DETAILS
- 3. What does the word unusual mean on page 156? Explain how the prefix un- helps you determine the word's meaning. PREFIXES
- 4. Use details from the selection to write about what makes spider silk an "amazing substance." WRITE ABOUT READING

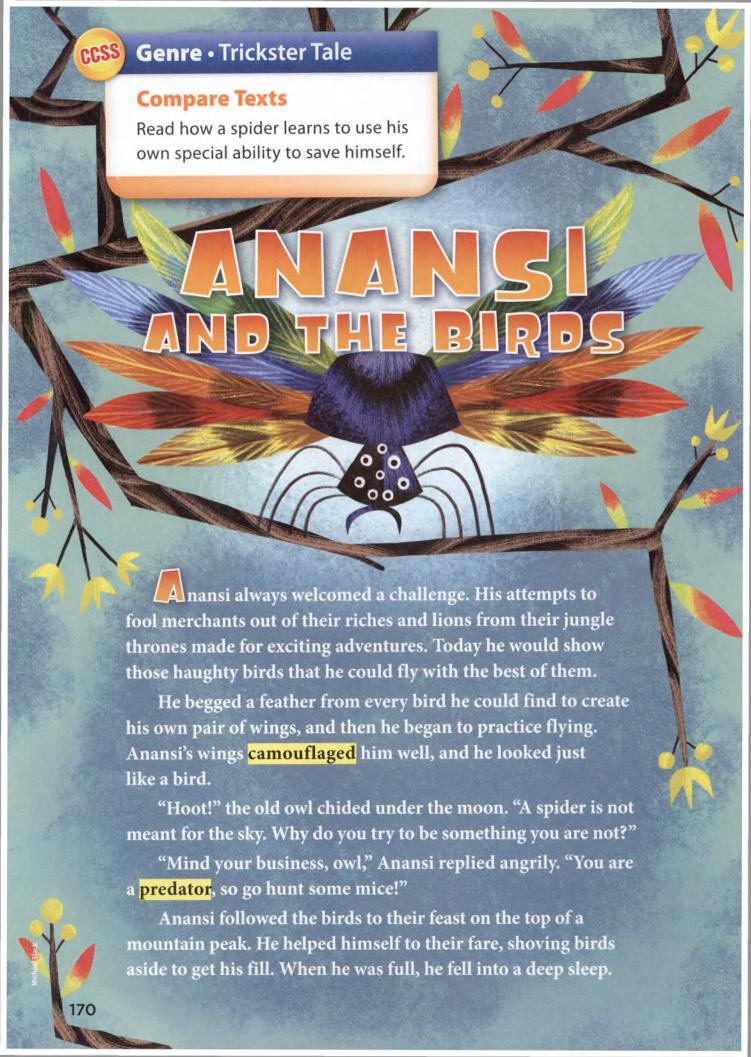




#### **Make Connections**

How have spiders adapted to survive? **ESSENTIAL QUESTION** 

Explain how spiders in the rain forest and spiders in the desert might adapt in different ways. **TEXT TO WORLD** 



Angrily, the birds took back the feathers from his wings and then left, all except for one crow. When Anansi awoke, he realized what had happened and begged the crow to help him get down the mountain.

"Of course," the crow replied slyly as he shoved Anansi over a cliff.

"Aaaayeeee!" shouted Anansi. Unable to fly, he tumbled helplessly through the air.

The old owl appeared before him, asking, "Why didn't you listen, Anansi? You are not a bird!"

"Please help me, owl!" pleaded Anansi.

The owl urged Anansi, "Push in your belly!" When he did, threads of silk shot out behind him. The owl caught them and tied them to a high branch. Dangling by threads, Anansi realized the owl was right. From that day on, he stuck to spinning webs instead of trying to be something he was not.

#### **Make Connections**

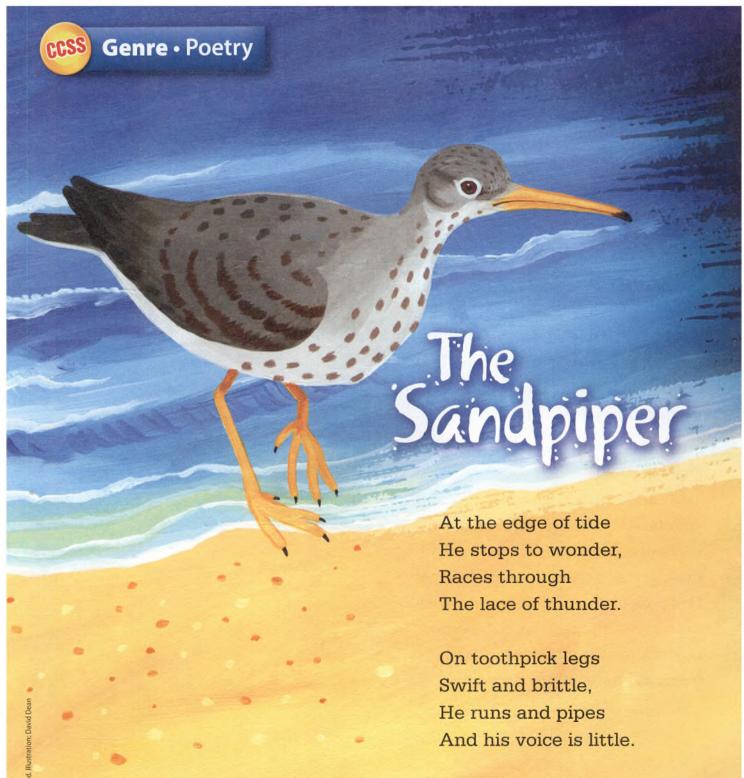


What helps Anansi survive? ESSENTIAL QUESTION

In this story Anansi discovered that he had an amazing ability. Discuss some other amazing animal adaptations.

**TEXT TO TEXT** 







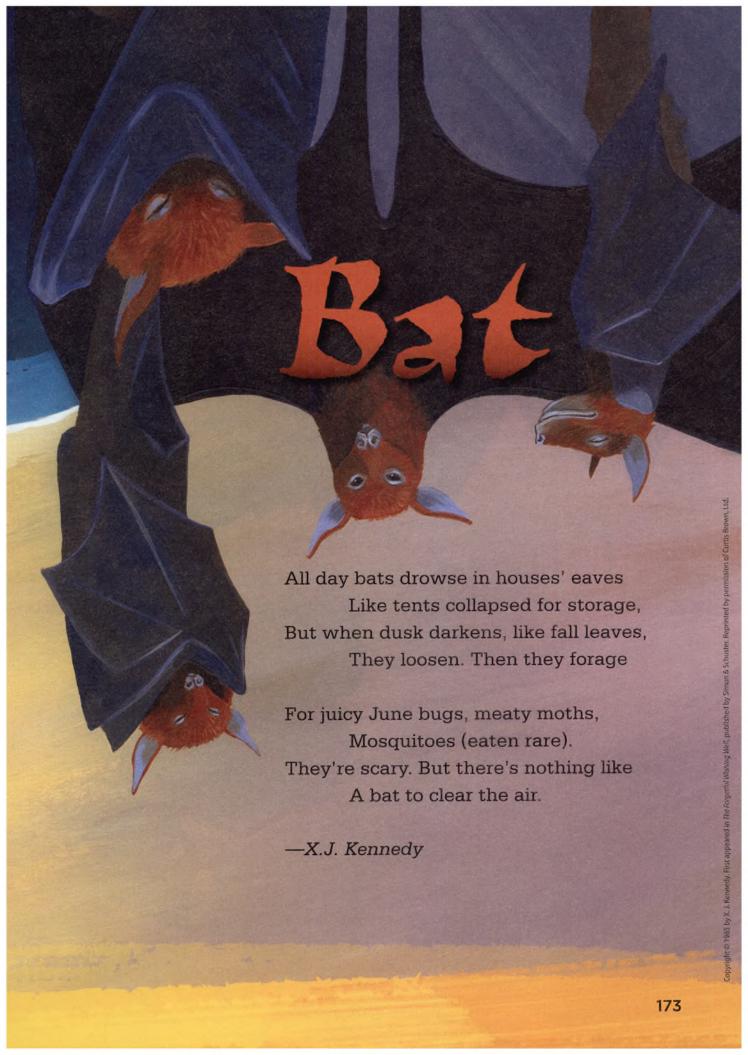
How are writers inspired by animals?

Read how poets visualize animal characteristics and habits.

Go Digital!

But small or not,
He has a notion
To outshout
The Atlantic Ocean.

-Frances Frost





The grasshopper springs
and catches the summer wind
with his outstretched wings.

-James W. Hackett

# Fireflies at Dusk

Fireflies dance at dusk, tiny lanterns in the dark lighting my way home.

-Evelyn Rose

# Respond to Reading

## Summarize

Use details from "Bat" to summarize the poem. Information from your Point of View Chart may help you.

## Text Evidence

- 1. What type of poem is "The Grasshopper Springs"? Identify the elements that help you determine the form of the poem. GENRE
- 2. What is the rhyming pattern in the first stanza of "Bat"? How does it change in the second stanza?
- **3.** The poet uses a metaphor to make a comparison in "Fireflies at Dusk." Identify the comparison and tell why the poet makes it. **FIGURATIVE LANGUAGE**
- 4. "The Sandpiper" describes a bird's actions from the speaker's point of view. Write about how the poem would be different if it were written from the point of view of the sandpiper. WRITE ABOUT READING

# Details Point of View

## **Make Connections**



In what ways did these animals inspire writers? **ESSENTIAL QUESTION** 

What are some other animals around the world that deserve their own poems? Why do you think they would inspire writers? **TEXT TO WORLD** 

Read how two poets compare weather conditions to animals.

The fog comes on little cat feet.

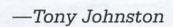
It sits looking over harbor and city on silent haunches and then moves on.

—Carl Sandburg

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# White Cat Winter

White cat Winter
prowls
the farm,
tiptoes
soft
through withered corn,
creeps
along low walls
of stone,
falls asleep
beside
the barn.





## **Make Connections**

In what ways are fog and winter like a cat? **ESSENTIAL QUESTION** 

Writers often make comparisons.

Talk about how each writer's creative comparisons helped you visualize an animal. TEXT TO TEXT

# GB GRETT THE IN TIMES SQUARE

By George Selden

DRAWINGS BY GART Williams



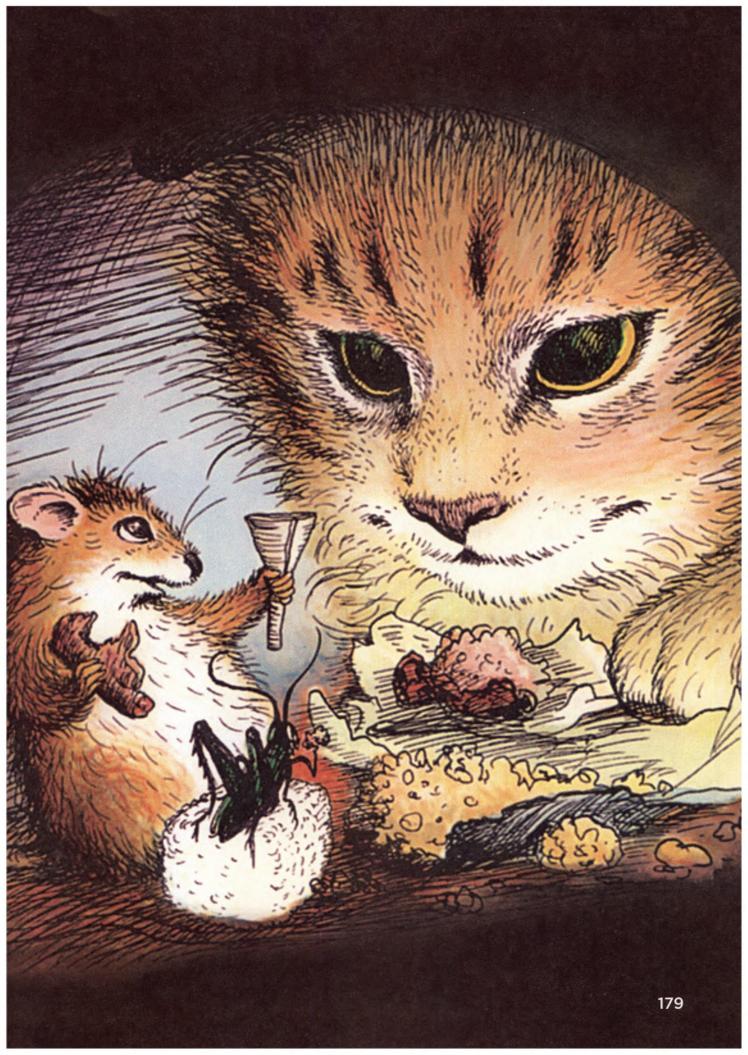
#### **Essential Question**

What makes a new friend feel welcome?

Read how two unlikely friends make a cricket feel at home in a strange place.



Go Digitali



#### Chester

Tucker Mouse had been watching the Bellinis and listening to what they said. Next to **scrounging**, eavesdropping on human beings was what he enjoyed most. That was one of the reasons he lived in the Times Square subway station. As soon as the family disappeared, he darted out across the floor and scooted up to the newsstand. At one side the boards had separated and there was a wide space he could jump through. He'd been in a few times before—just exploring. For a moment he stood under the three-legged stool, letting his eyes get used to the darkness. Then he jumped on it.

"Psst!" he whispered. "Hey, you up there—are you awake?" There was no answer.

"Psst! Psst! Hey!" Tucker whispered again, louder this time.

From the shelf above came a scuffling, like little feet feeling their way to the edge. "Who is that going 'psst'?" said a voice.

"It's me," said Tucker. "Down here on the stool."

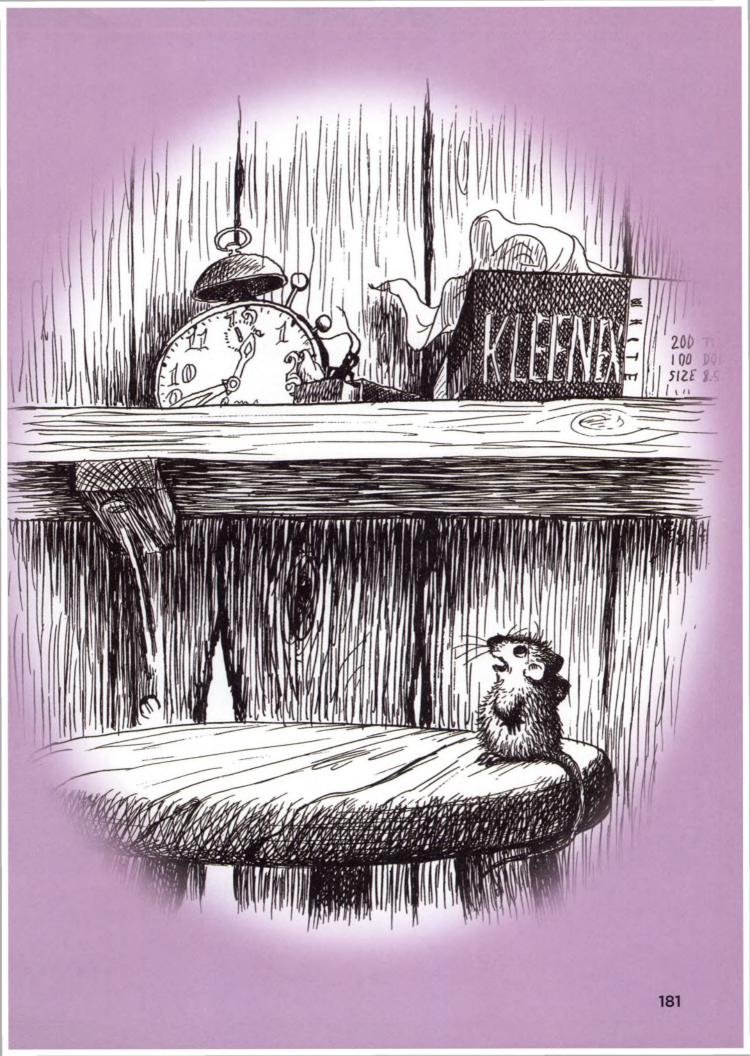
A black head, with two shiny black eyes, peered down at him. "Who are you?"

"A mouse," said Tucker, "Who are you?"

"I'm Chester Cricket," said the cricket. He had a high, musical voice. Everything he said seemed to be spoken to an unheard melody.

"My name's Tucker," said Tucker Mouse. "Can I come up?"

"I guess so," said Chester Cricket. "This isn't my house anyway."



Tucker jumped up beside the cricket and looked him all over. "A cricket," he said admiringly. "So you're a cricket. I never saw one before."

"I've seen mice before," the cricket said. "I knew quite a few back in Connecticut."

"Is that where you're from?" asked Tucker.

"Yes," said Chester. "I guess I'll never see it again," he added wistfully.

"How did you get to New York?" asked Tucker Mouse.

"It's a long story," sighed the cricket.

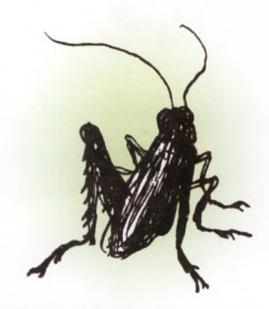
"Tell me," said Tucker, settling back on his haunches. He loved to hear stories. It was almost as much fun as eavesdropping—if the story was true.

"Well, it must have been two—no, three days ago," Chester Cricket began. "I was sitting on top of my stump, just enjoying the weather and thinking how nice it was that summer had started. I live inside an old tree stump, next to a willow tree, and I often go up to the roof to look around. And I'd been practicing jumping that day too. On the other side of the stump from the willow tree there's a brook that runs past, and I'd been jumping back and forth across it to get my legs in condition for the summer. I do a lot of jumping, you know."

"Me too," said Tucker Mouse. "Especially around the rush hour."

"And I had just finished jumping when I smelled something," Chester went on, "liverwurst, which I love."

"You like liverwurst?"
Tucker broke in. "Wait! Wait!
Just wait!"



In one leap, he sprang down all the way from the shelf to the floor and dashed over to his drain pipe. Chester shook his head as he watched him go. He thought Tucker was a very excitable person—even for a mouse.

Inside the drain pipe, Tucker's nest was a **jumble** of papers, scraps of cloth, buttons, lost jewelry, small change, and everything else that can be picked up in a subway station. Tucker tossed things left and right in a wild search. Neatness was not one of the things he aimed at in life. At last he discovered what he was looking for: a big piece of liverwurst he had found earlier that evening. It was meant to be for breakfast tomorrow, but he decided that meeting his first cricket was a special occasion. Holding the liverwurst between his teeth, he whisked back to the newsstand.

"Look!" he said proudly, dropping the meat in front of Chester Cricket. "Liverwurst! You continue the story—we'll enjoy a snack too."

"That's very nice of you," said Chester. He was touched that a mouse he had known only a few minutes would share his food with him. "I had a little chocolate before, but besides that, nothing for three days."

"Eat! Eat!" said Tucker. He bit the liverwurst into two pieces and gave Chester the bigger one. "So you smelled the liverwurst—then what happened?"

STOP AND CHECK

Visualize Which details help you visualize Tucker's nest?



"I hopped down from the stump and went off toward the smell," said Chester.

"Very logical," said Tucker Mouse, munching with his cheeks full. "Exactly what I would have done."

"It was coming from a picnic basket," said Chester. "A couple of tuffets away from my stump the meadow begins, and there was a whole bunch of people having a



picnic. They had hard boiled eggs, and cold roast chicken, and roast beef, and a whole lot of other things besides the liverwurst sandwiches which I smelled."

Tucker Mouse moaned with pleasure at the thought of all that food.

"They were having such a good time laughing and singing songs that they didn't notice me when I jumped into the picnic basket," continued Chester. "I was sure they wouldn't mind if I had just a taste."

"Naturally not," said Tucker Mouse sympathetically. "Why mind? Plenty for all. Who could blame you?"

"Now, I have to admit," Chester went on, "I had more than a taste. As a matter of fact, I ate so much that I couldn't keep my eyes open—what with being tired from the jumping and everything. And I fell asleep right there in the picnic basket. The first thing I knew, somebody had put a bag on top of me that had the last of the roast beef sandwiches in it. I couldn't move!"

"Imagine!" Tucker exclaimed. "Trapped under roast beef sandwiches! Well, there are worse fates."

"At first I wasn't too frightened," said Chester. "After all, I thought, they probably come from New Canaan or some other nearby town. They'll have to unpack the basket sooner or later. Little did I know!" He shook his head and sighed. "I could feel the basket being carried into a car and riding somewhere and then being lifted down. That must have been the railroad station. Then I went up again and there was a rattling and roaring sound, the way a train makes. By this time I was pretty scared. I knew every minute was taking me farther away from my stump, but there wasn't anything I could do. I was getting awfully cramped too, under those roast beef sandwiches."

"Didn't you try to eat your way out?" asked Tucker.

"I didn't have any room," said Chester. "But every now and then the train would give a lurch and I managed to free myself a little. We traveled on and on, and then the train stopped. I didn't have any idea where we were, but as soon as the basket was carried off, I could tell from the noise it must be New York."

"You never were here before?" Tucker asked.

"Goodness no!" said Chester. "But I've heard about it. There was a swallow I used to know who told about flying over New York every spring and fall on her way to the North and back. But what would I be doing here?" He shifted uneasily from one set of legs to another. "I'm a country cricket."

"Don't worry," said Tucker Mouse. "I'll feed you liverwurst. You'll be all right. Go on with the story."

"It's almost over," said Chester. "The people got off one train and walked a ways and got on another—even noisier than the first."

"Must have been the subway," said Tucker.

"I guess so," Chester Cricket said. "You can imagine how scared I was. I didn't know where I was going! For all I knew they could have been heading for Texas, although I don't guess many people from Texas come all the way to Connecticut for a picnic."

"It could happen," said Tucker, nodding his head.

"Anyway I worked furiously to get loose. And finally I made it. When they got off the second train, I took a flying leap and landed in a pile of dirt over in the corner of this place where we are."

"Such an introduction to New York," said Tucker, "to land in a pile of dirt in the Times Square subway station. Tsk, tsk, tsk."

"And here I am," Chester concluded forlornly. "I've been lying over there for three days not knowing what to do. At last I got so nervous I began to chirp."

"That was the sound!"
interrupted Tucker Mouse. "I heard it, but I didn't know what it was."

"Yes, that was me," said Chester. "Usually I don't chirp until later on in the summer—but my goodness, I had to do *something*!"

The cricket had been sitting next to the edge of the shelf. For some reason—perhaps it was a faint noise, like padded feet tiptoeing across the floor—he happened to look down. A shadowy form that had been crouching silently below in the darkness made a spring and landed right next to Tucker and Chester.

"Watch out!" Chester shouted, "A cat!" He dove headfirst into the matchbox.

### Harry Cat

Chester buried his head in the Kleenex. He didn't want to see his new friend, Tucker Mouse, get killed. Back in Connecticut he had sometimes watched the one-sided fights of cats and mice in the meadow, and unless the mice were near their holes, the fights always ended in the same way. But this cat had been upon them too quickly: Tucker couldn't have escaped.

There wasn't a sound. Chester lifted his head and very cautiously looked behind him. The cat—a huge tiger cat with gray-green eyes and black stripes along his body—was sitting on his hind legs, switching his tail around his forepaws. And directly between those forepaws, in the very jaws of his enemy, sat Tucker Mouse. He was watching Chester curiously. The cricket began to make frantic signs that the mouse should look up and see what was looming over him.

Very casually Tucker raised his head. The cat looked straight down on him. "Oh, him," said Tucker, chucking the cat under the chin with his right front paw, "he's my best friend. Come out from the matchbox."

Chester crept out, looking first at one, then the other.

"Chester, meet Harry Cat," said Tucker. "Harry, this is Chester. He's a cricket."

"I'm very pleased to make your acquaintance," said Harry Cat in a silky voice.

"Hello," said Chester. He was sort of ashamed because of all the fuss he'd made. "I wasn't scared for myself. But I thought cats and mice were enemies."

"In the country, maybe," said Tucker. "But in New York we gave up those old habits long ago. Harry is my oldest friend. He lives with me over in the drain pipe. So how was scrounging tonight, Harry?"

"Not so good," said Harry Cat. "I was over in the ash cans on the East Side, but those rich people don't throw out as much garbage as they should."



"Chester, make that noise again for Harry," said Tucker Mouse.

Chester lifted the black wings that were carefully folded across his back and with a quick, expert stroke drew the top one over the bottom. A *thrumm* echoed through the station.

"Lovely-very lovely," said the cat. "This cricket has talent."

"I thought it was singing," said Tucker. "But you do it like playing a violin, with one wing on the other?"

"Yes," said Chester. "These wings aren't much good for flying, but I prefer music anyhow." He made three rapid chirps.

Tucker Mouse and Harry Cat smiled at each other. "It makes me want to purr to hear it," said Harry.

"Some people say a cricket goes 'chee chee chee," explained Chester. "And others say, 'treet treet treet,' but we crickets don't think it sounds like either one of those."

"It sounds to me as if you were going 'crik crik crik," said Harry.

"Maybe that's why they call him a 'cricket," said Tucker.

They all laughed. Tucker had a squeaky laugh that sounded as if he were hiccupping. Chester was feeling much happier now. The future did not seem nearly as gloomy as it had over in the pile of dirt in the corner.

"Are you going to stay a while in New York?" asked Tucker.

"I guess I'll have to," said Chester. "I don't know how to get home."

"Well, we could always take you to Grand Central Station and put you on a train going back to Connecticut," said Tucker. "But why don't you give the city a try. Meet new people—see new things. Mario likes you very much."

#### STOP AND CHECK

**Visualize** How do Tucker and Harry feel about Chester's chirping? Which words help you visualize their reaction?

"Yes, but his mother doesn't," said Chester. "She thinks I carry germs."

"Germs!" said Tucker scornfully.

"She wouldn't know a germ if
one gave her a black eye. Pay
no attention."

"Too bad you couldn't have found more successful friends," said Harry Cat. "I fear for the future of this newsstand."

"It's true," echoed Tucker sadly.

"They're going broke fast." He jumped up on a pile of magazines and read off the names in the half-light that slanted through the cracks in the wooden cover. "Art News—Musical America. Who would read them but a few long-hairs?"

"I don't understand the way you talk," said Chester. Back in the meadow he had listened to bullfrogs, and woodchucks, and rabbits, even a few snakes, but he had never heard anyone speak like Tucker Mouse. "What is a long-hair?"

Tucker scratched his head and thought a moment. "A long-hair is an extra-refined person," he said. "You take an Afghan hound—that's a long-hair."

"Do Afghan hounds read Musical America?" asked the cricket.

"They would if they could," said Tucker.

Chester shook his head. "I'm afraid I won't get along in New York," he said.

"Oh, sure you will!" squeaked Tucker Mouse. "Harry, suppose we take Chester up and show him Times Square. Would you like that, Chester?"

"I guess so," said Chester, although he was really a little leery of venturing out into New York City. The three of them jumped down to the floor. The crack in the side of the newsstand was just wide enough for Harry to get through. As they crossed the station floor, Tucker pointed out the local sights of interest, such as the Nedick's lunch counter—Tucker spent a lot of time around there—and the Loft's candy store. Then they came to the drain pipe. Chester had to make short little hops to keep from hitting his head as they went up. There seemed to be hundreds of twistings and turnings, and many other pipes that opened off the main route, but Tucker Mouse knew his way perfectly—even in the dark. At last Chester saw light above them. One more hop brought him out onto the sidewalk. And there he gasped, holding his breath and crouching against the cement.

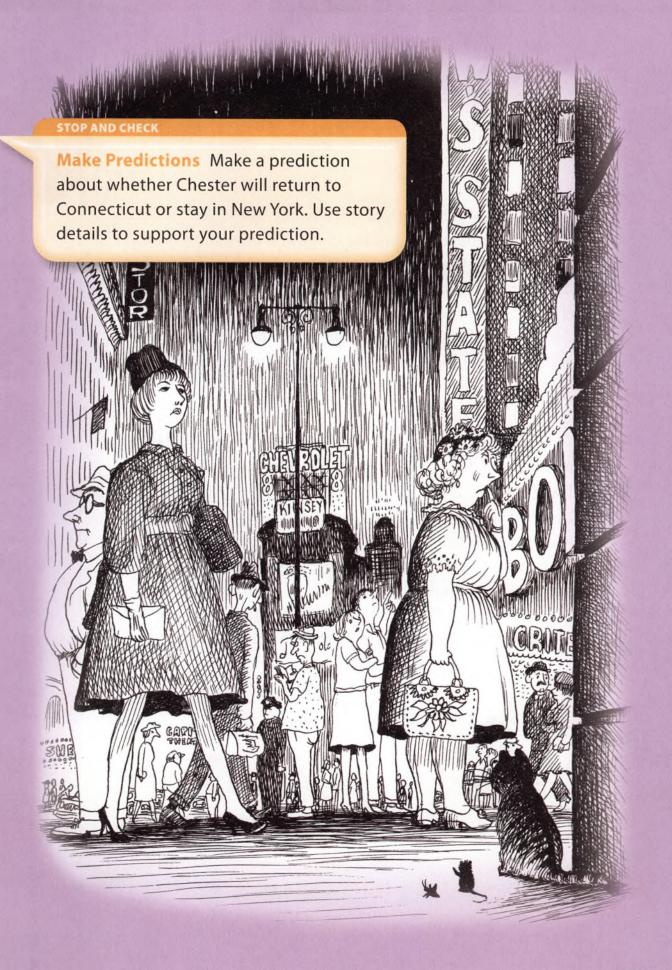
They were standing at one corner of the Times building, which is at the south end of Times Square. Above the cricket, towers that seemed like mountains of light rose up into the night sky. Even this late the neon signs were still blazing. Reds, blues, greens, and yellows flashed down on him. And the air was full of the roar of traffic and the hum of human beings. It was as if Times Square were a kind of shell, with colors and noises breaking in great waves inside it. Chester's heart hurt him and he closed his eyes. The sight was too terrible and beautiful for a cricket who up to now had measured high things by the height of his willow tree and sounds by the burble of a running brook.

"How do you like it?" asked Tucker Mouse.

"Well-it's-it's quite something," Chester stuttered.

"You should see it New Year's Eve," said Harry Cat.

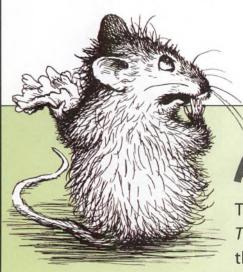
Gradually Chester's eyes got used to the lights. He looked up. And way far above them, above New York, and above the whole world, he made out a star that he knew was a star he used to look at back in Connecticut. When they had gone down to the station and Chester was in the matchbox again, he thought about that star. It made him feel better to think that there was one familiar thing, twinkling above him, amid so much that was new and strange.



# About the Author and Illustrator

George Selden got the idea for *The Cricket in Times* Square after hearing a cricket chirp at a busy subway stop in New York City. "The story formed in my mind within minutes," he said. In his writing, Selden created animal characters that reflect what he called "human truth," or the way that humans should behave. Like Chester Cricket, Selden grew up in Connecticut and then later lived in New York City.

Like Tucker Mouse and Harry Cat, **Garth Williams** was born in New York City. His parents were both artists. He spent his childhood on a farm in New Jersey, where he spent hours drawing animals. "Everybody in my home was always either painting or drawing," he said. Williams's illustrations brought to life some of the best-known characters in children's literature. In addition to *The Cricket in Times Square*, Williams illustrated *Charlotte's Web* and *Stuart Little*, two classic novels by E. B. White.



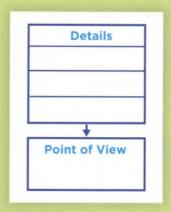
#### **Author's Purpose**

Think about the three different animal characters in The Cricket in Times Square. How does the author use these characters to show the importance of friendship?

# Respond to Reading

#### **Summarize**

Summarize the most important events in *The Cricket in Times Square*. Information from your Point of View Chart may help you.



#### **Text Evidence**

- **1.** Explain how you know that *The Cricket in Times Square* is a fantasy. **GENRE**
- 2. Is the narrator a character in the story? Use two examples from the text to tell about the point of view. POINT OF VIEW
- 3. What is the meaning of the word *route*? Tell how context clues in the first paragraph on page 192 help you understand the word's meaning. PARAGRAPH CLUES
- **4.** Write about how the point of view in this selection helps you understand each character.

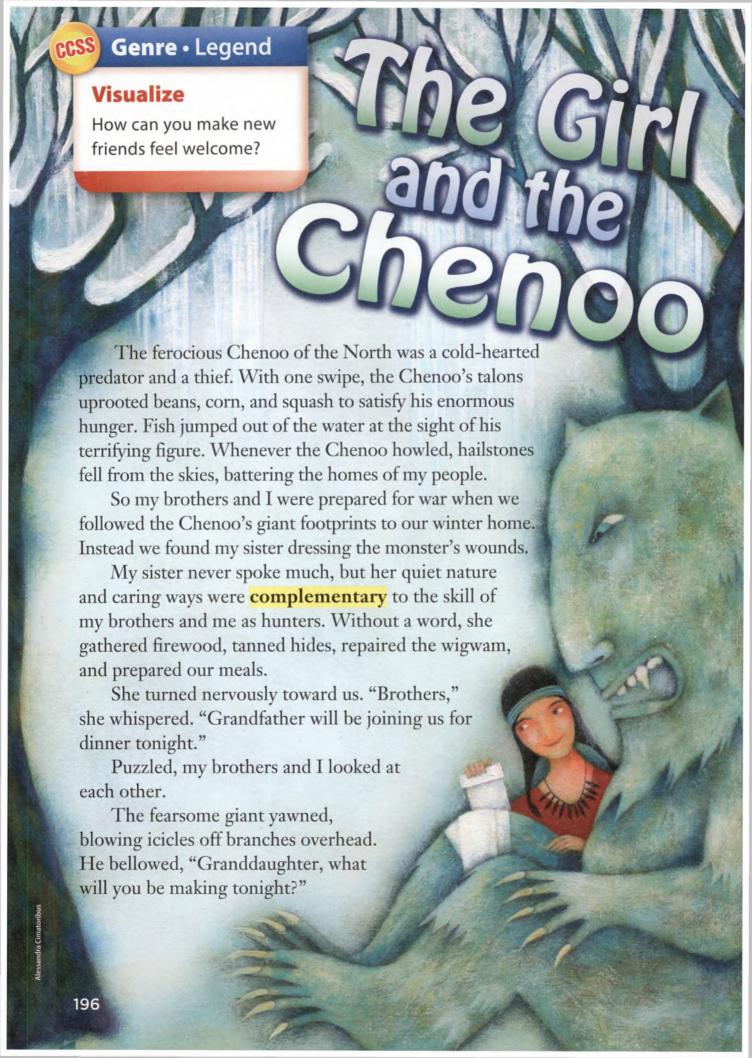
WRITE ABOUT READING

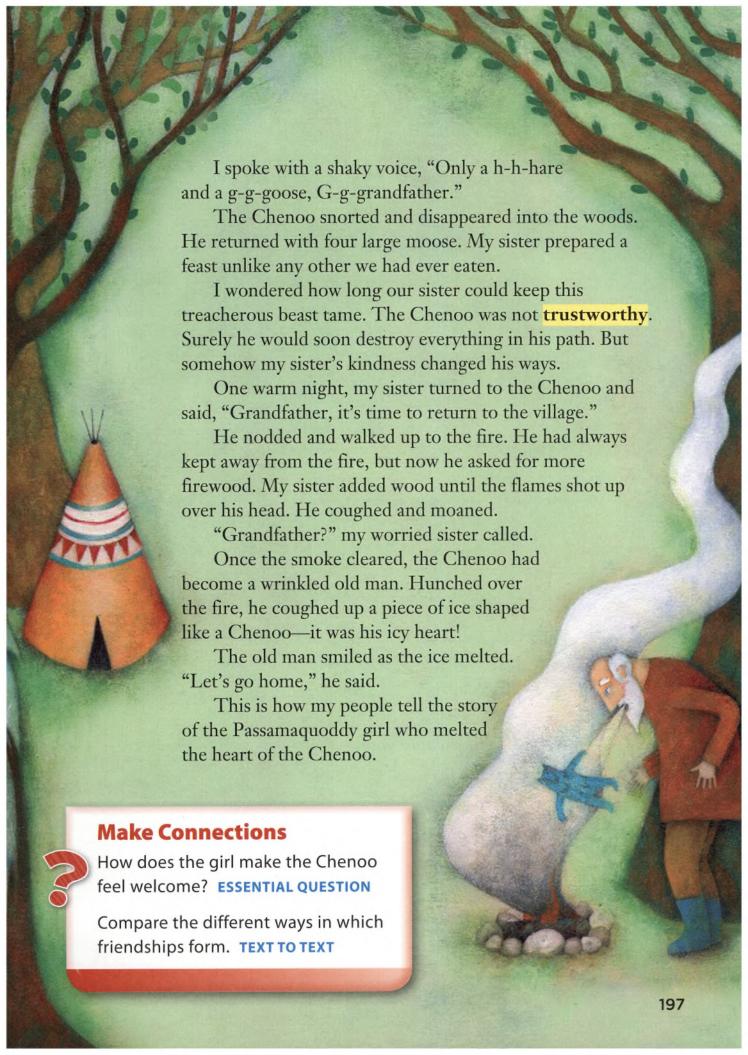
#### **Make Connections**

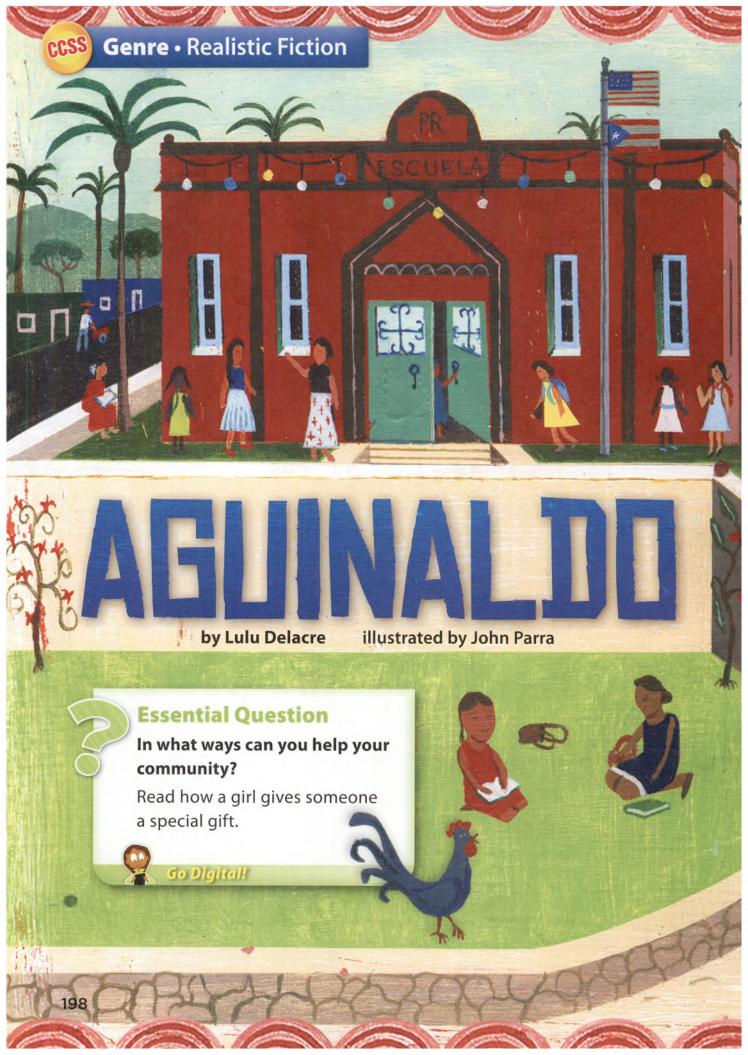
How do Tucker and Harry make Chester feel at home in a strange place? **ESSENTIAL QUESTION** 

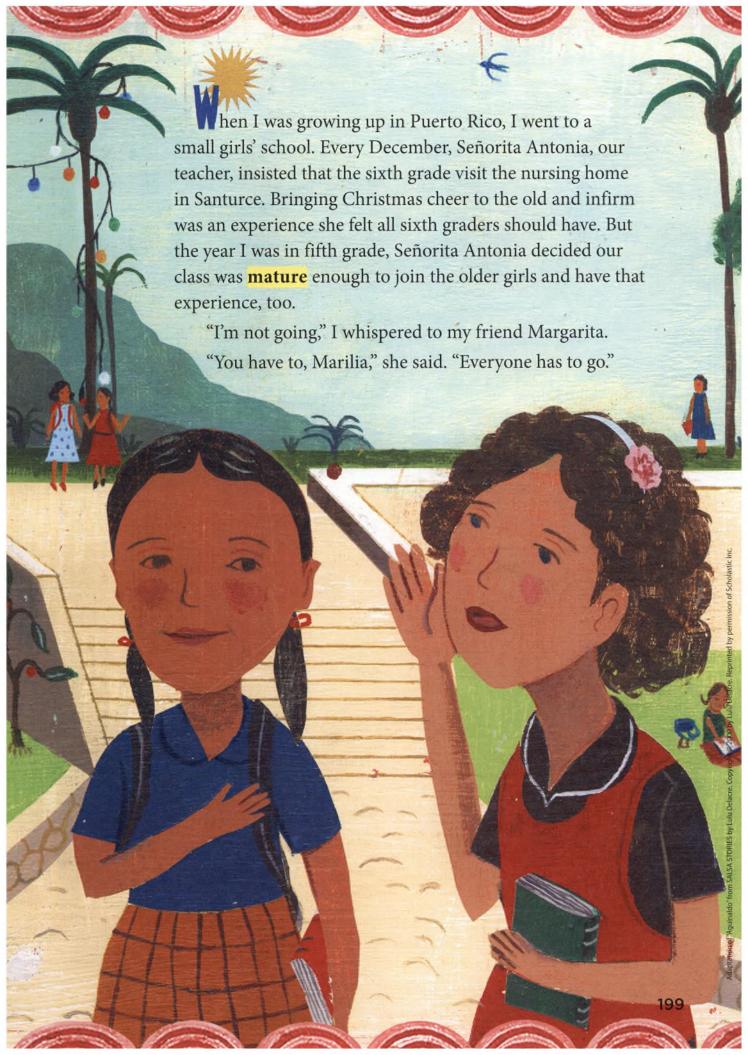
Why is welcoming newcomers to a community important? **TEXT TO WORLD** 











All of my classmates looked forward to the trip. Some, because they liked the rackety bus ride to anywhere. Some, because they could skip school for the day and that meant no homework. And others, because they believed that to do a sixth-grade activity in fifth grade was very special. But ever since my only grandma died in a nursing home, the thought of going back to one made me feel sad. I didn't want to go.

As I sat at my desk coloring the Christmas card that I was assigned to make for a resident, I tried to figure out how I could skip this field trip. Maybe they would let me help at the library. Maybe I could write a special book report at school while they were out. Or better yet, I could wake up ill and stay home from school. As soon as the recess bell rang, I ran over to the library to try out my first plan.





"Hola, Marilia," Señora Collazo greeted me.

"Hola, Señora Collazo," I said, smiling sweetly. "I came to ask you if I could stay here tomorrow to help you paint posters for the book fair. I really don't mind spending the whole day at the library."

"Aren't you going on a field trip tomorrow?" Señora Collazo asked.

"My class is going. But I could be excused if you need my help." The librarian thanked me and said that if I wanted to help I could join the other students who had already volunteered to stay after school to do the posters. Biting my lower lip, I left the library in a hurry. It was time to try my second plan.

Outside, seated on the polished tiles of the covered corridor, my friends were having a tournament of jacks. But I didn't join them. Instead, I marched right to the sixth-grade classroom. Señorita Antonia was grading papers at her desk as I went in.

"Señorita Antonia," I said softly.

"Yes, Marilia," Señorita Antonia answered.

I stared for a moment at the buckles of my shoes. Then without looking up, I took a deep breath, swept back my black curls, and asked, "May I stay in school tomorrow to do an extra book report?"

"I'm afraid not, Marilia," Señorita Antonia said firmly. "Tomorrow is our trip to the nursing home. Both the fifth and sixth grades are going. But if you want to do an extra book report, you can do it over the weekend."

I glanced across the room to the trays of besitos de coco, the coconut sweets that the sixth graders had prepared to bring to the nursing-home residents as an aguinaldo. Aguinaldos, surprise Christmas gifts, were fun to receive. But still, I wasn't going, so it wasn't my concern. I whispered thank you to the teacher, and left.

That evening at dinnertime, I put my third plan into action. To my parents' surprise, I had two big helpings of rice and kidney beans, two helpings of Mami's tembleque for dessert, and three glasses of mango juice. I never ate so much. I figured that with all this food, I was sure to get indigestion. I went to bed and waited. I tossed and turned. I waited for several hours expecting a stomachache any second, but instead, the heavy meal made me tired and I fell sound asleep.



STOP AND CHECK

Visualize Marilia does not want to go on the trip to the nursing home. Which words on page 202 help you visualize Marilia's desperation?

"Marilia, get dressed!" Mami called early the next morning. "We have to leave soon for school!"

How unlucky. I woke up feeling quite well. There was only one thing left to do, I ran to the bathroom, let the hot water run, and drank a full glass of it. Then I went back to bed.

"Marilia," Mami came in. "Get up! What is going on with you?"

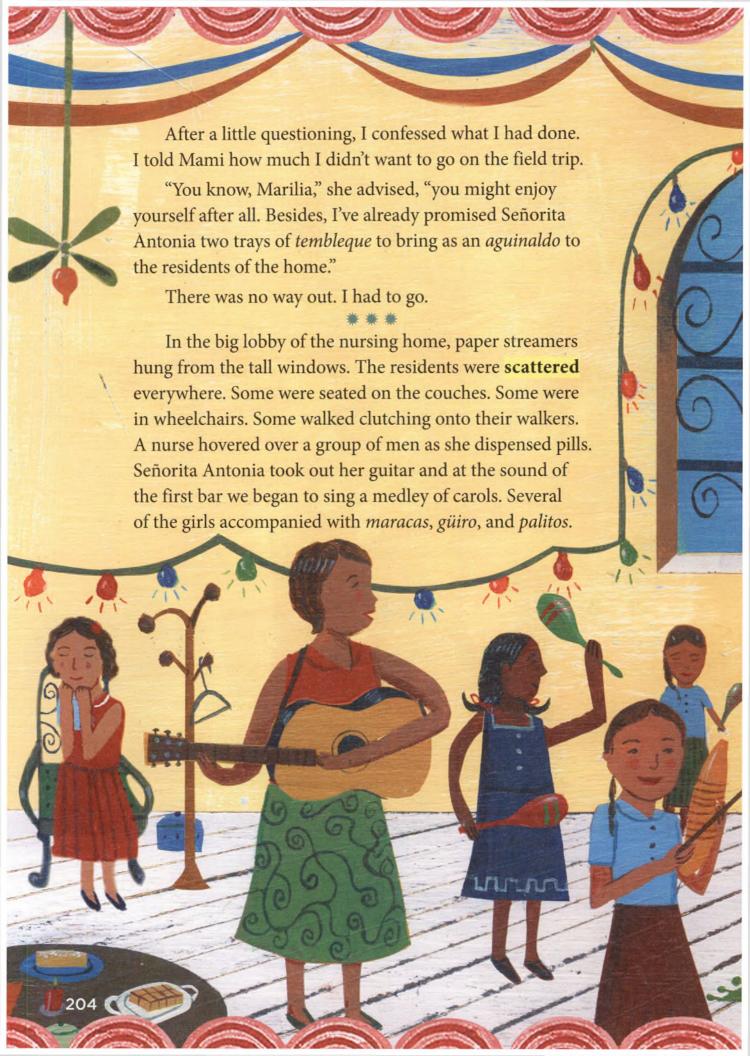
"I feel warm, Mami," I mumbled.

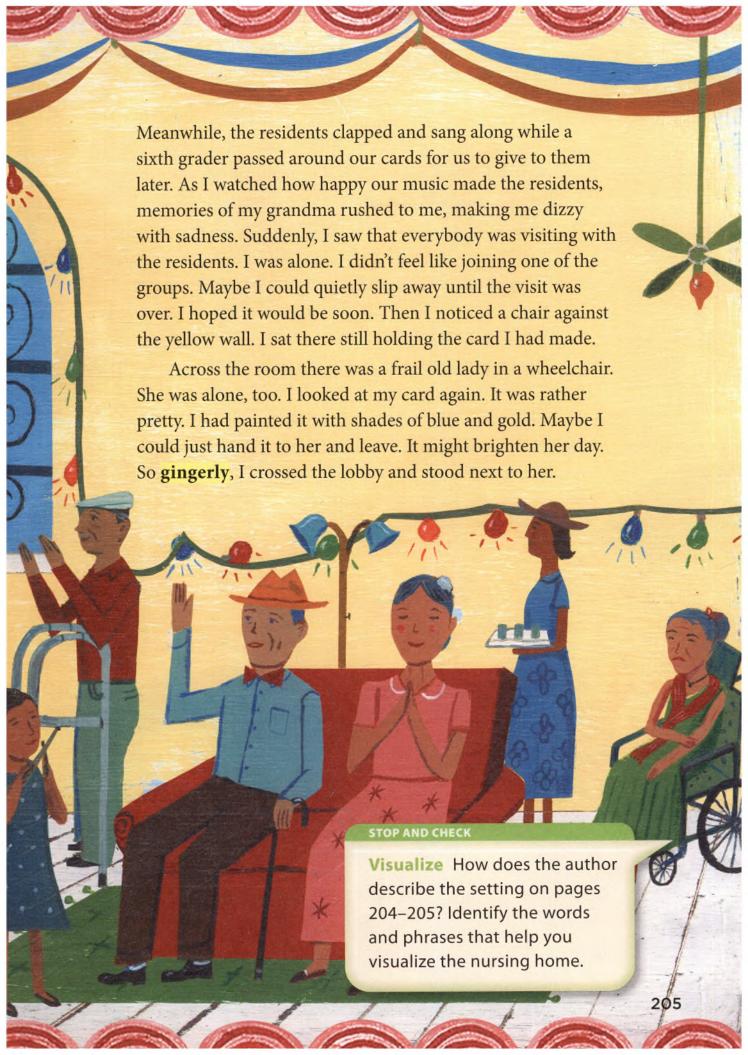
Mami looked at me with concern. She touched my forehead and my neck. Then she left the room and in a few minutes came back with the thermometer in her hands. I opened my mouth and she slipped it under my tongue.

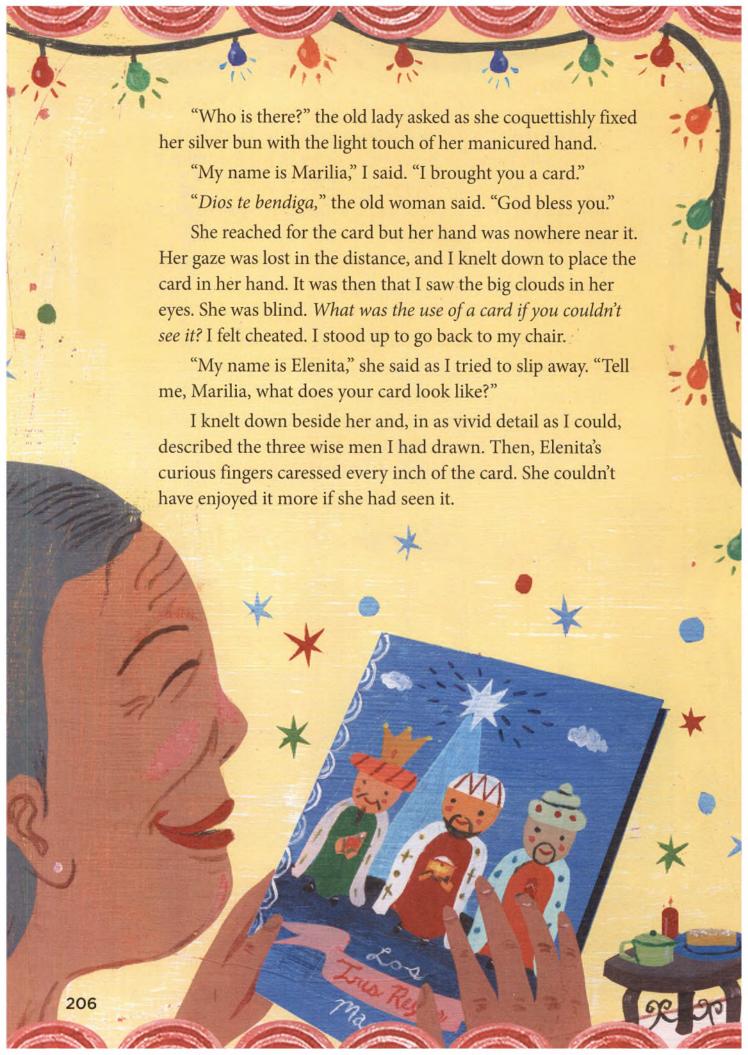
When the time was up, Mami pulled the thermometer out and read it.

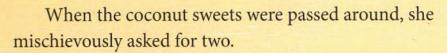
"One hundred and six degrees?" she exclaimed. "That's impossible. You look perfectly fine to me."











"I bet you are not supposed to eat one of these," she giggled.

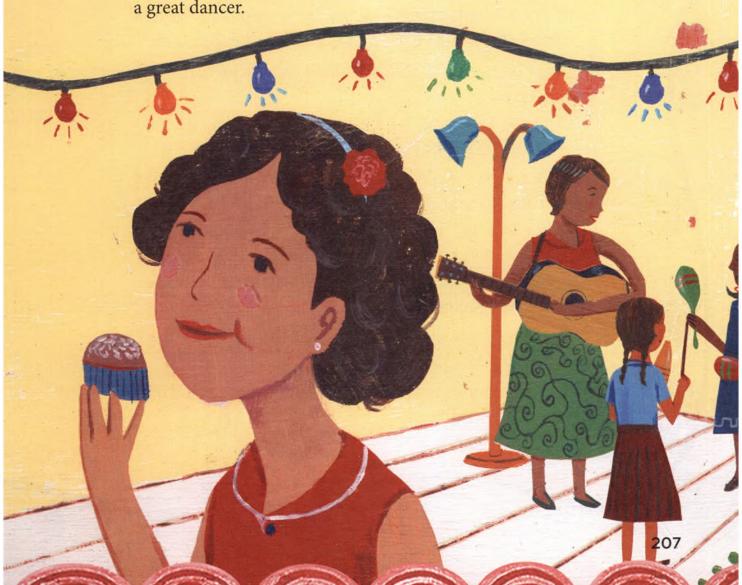
"No," I replied. "Señorita Antonia told us that the sweets were just for residents."

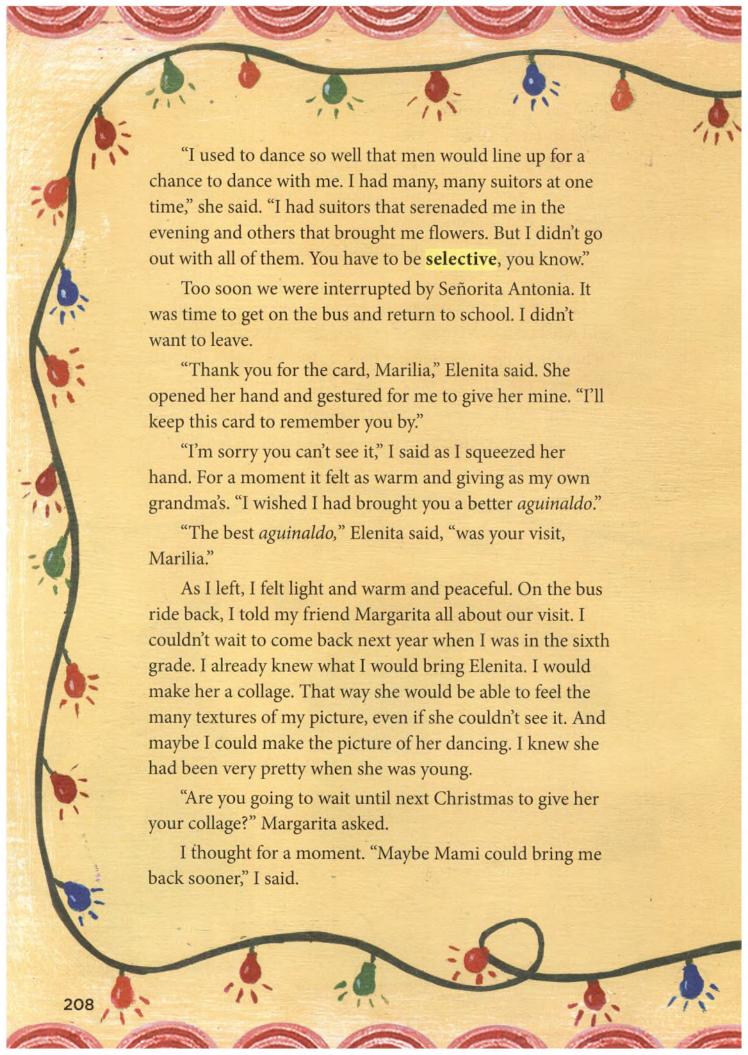
"Well," she whispered. "Nobody said I couldn't give you one of *mine*."

I liked Elenita. I placed the *besito de coco* in my mouth and relished it even more. Especially since I wasn't supposed to have it. I enjoyed being her partner in mischief. After that, she asked me if I liked music and if I knew how to dance.

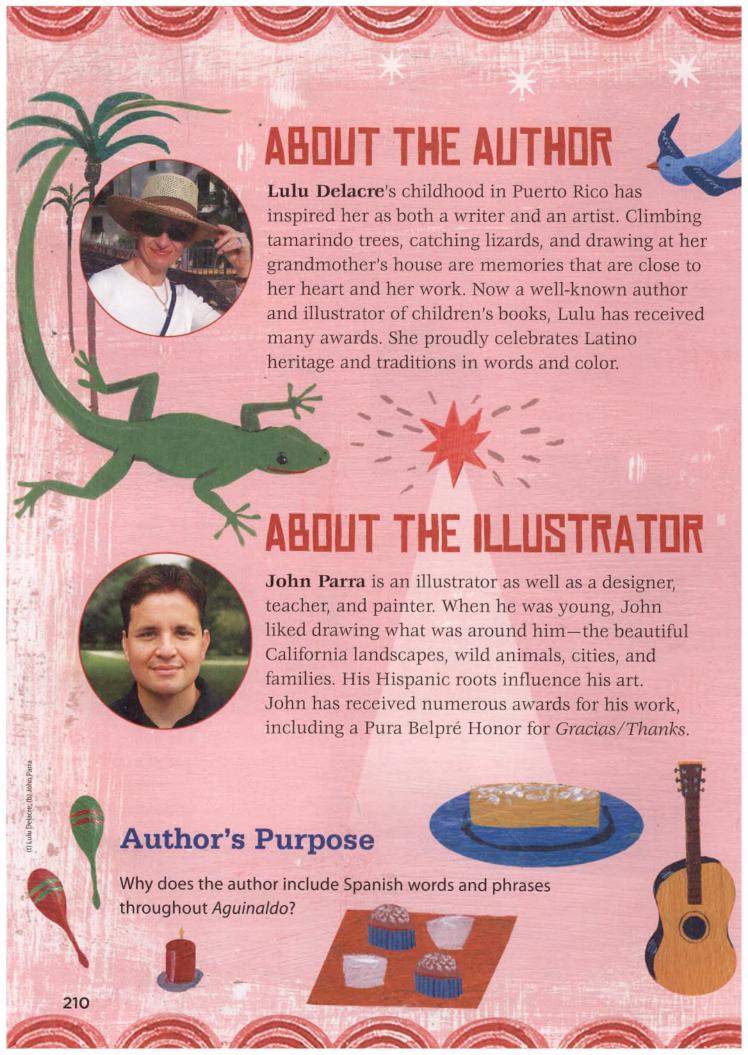
"Ay," I said. "I love to listen to music and dance."

Then she told me how, when she was young, she had been a great dancer.









## RESPOND TO READING

#### Summarize

Use the most important details from Aguinaldo to summarize the story. Information from your Point of View Chart may help you.

# Details Point of View

#### **Text Evidence**

- 1. What makes Aguinaldo realistic fiction? Explain using examples from the story. GENRE
- 2. Is the story told by a first-person or thirdperson narrator? Use evidence to tell about the narrator's point of view. POINT OF VIEW
- 3. What does the word aguinaldos mean on page 202? Explain how context clues helped you figure out the meaning. **DEFINITIONS AND RESTATEMENTS**
- 4. Write how the story would change if it were written from a different point of view. WRITE ABOUT READING

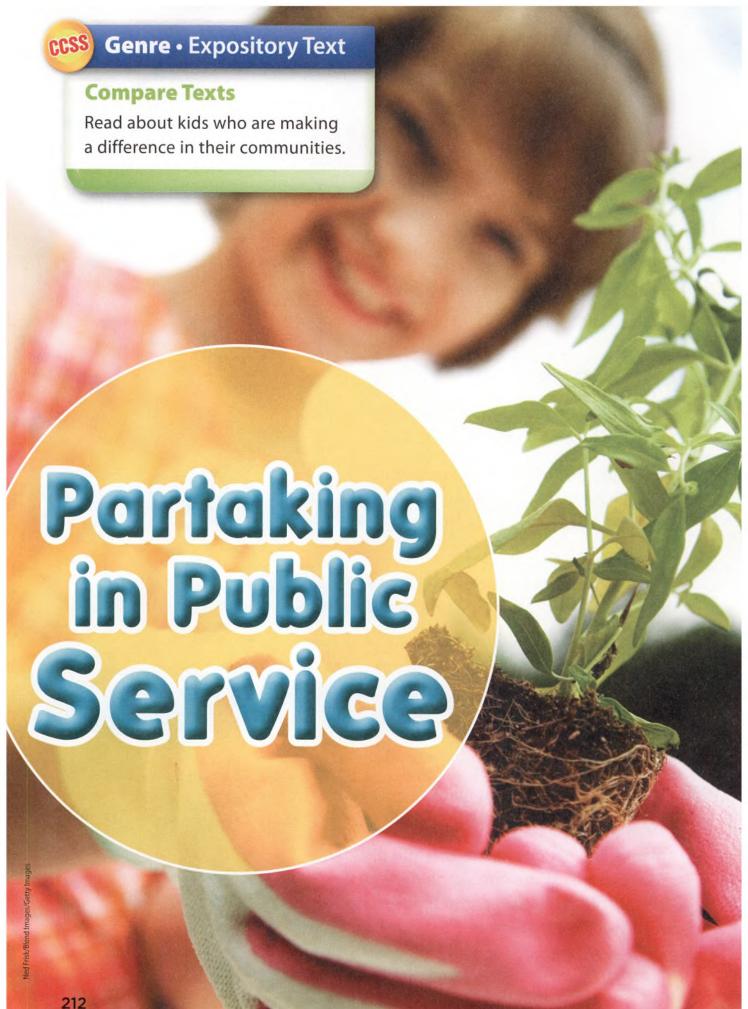
#### **Make Connections**

What is so special about Marilia's gift?

ESSENTIAL QUESTION

Marilia and her classmates brought gifts to the residents at the nursing home. Why do people often say, "It is better to give than to receive"? **TEXT TO WORLD** 



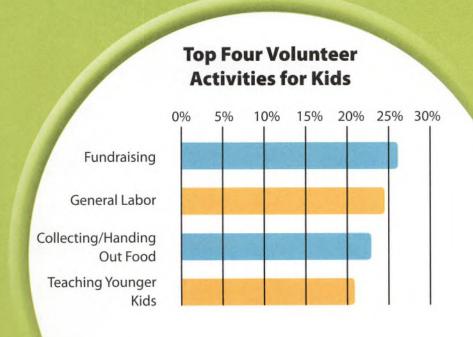


#### There is no doubt about it:

Volunteering is an important part of American life. About 27% of us volunteer in some way. This means that one American out of every four is performing a public service.

Many volunteers are teens and children. In fact, in the last 20 years, the number of teen volunteers in this country has doubled. Youth service organizations, such as 4-H clubs, have grown in popularity.

Kids join local volunteer groups to give back to their communities. They work together to help others and to improve their schools and neighborhoods. Community projects may include planting gardens or collecting food and clothing. Some kids raise money for local charities. The volunteer opportunities are limitless.



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Some amazing young people have truly taken volunteering to the next level. They show the rest of us what public service is all about.

Alex Lin supports the idea of recycling. But he's not concerned with the kind that involves bottles and cans. Instead, he urges others to recycle e-waste, which is electronic garbage. Electronics, such as computers and game systems, have chemicals that can hurt the earth. They must be recycled and stored safely.

Alex was just nine years old when he formed the WIN community service team to recycle electronics. By the time he was 16, he had recycled 300,000 pounds of e-waste. He also helped to write a law against e-waste in his home state of Rhode Island.

Alex soon realized that reusing was an even better solution to e-waste. Working with his school, he set up a program that fixed old computers and donated them to students in need. Eventually, this program grew. Now it sends computers to people around the world.

Erica Fernandez also cares about the environment. She was 16 years old when she heard that a natural gas plant would be built near her hometown. Erica learned that the plant would pollute the air. It

Erica decided to do something about it. She organized groups to protest the plant. They spoke out publicly. They wrote letters to the government. Eventually, the state agreed to cancel the plans for the plant. Thanks to Erica, the local environment was saved.

would bring harmful chemicals to nearby towns.



Evan Green was only seven years old when he started the Red Dragon Conservation Team. Its purpose was to protect the tropical rain forest. It has since become an international group of kids who want to save the planet.

After that, Katie never looked back. She has donated thousands of pounds of produce to people in need.

The kids collect community donations and send them to the Center for Ecosystem Survival (CES) in California. CES uses the donations to buy land in the rain forest and in coral reef areas around the world. This protects the land and sea nearby from being destroyed by humans.

#### **Simple Ideas Solve Problems**

Katie Stagliano had a

gallant idea that started with a tiny

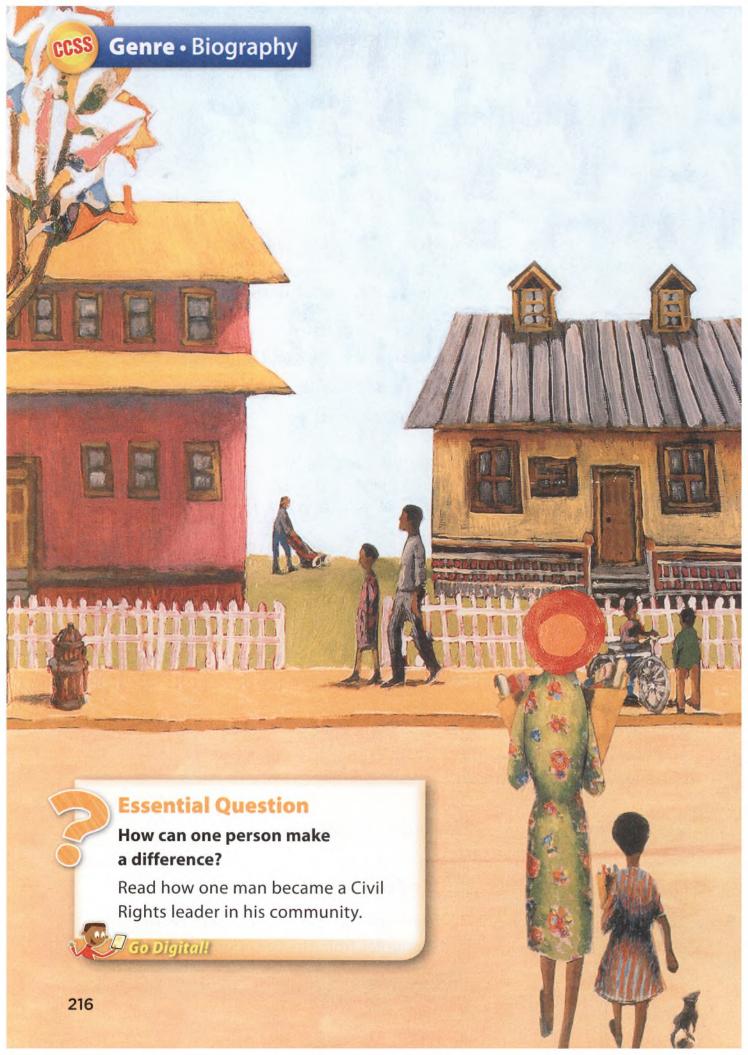
All of these kids started with a simple idea. They worked to help their community in important ways. Their **generosity** has affected people around the world. Kids have the power to make a positive change through volunteering. In the words of Evan Green, "You don't have to be an adult to make a difference."

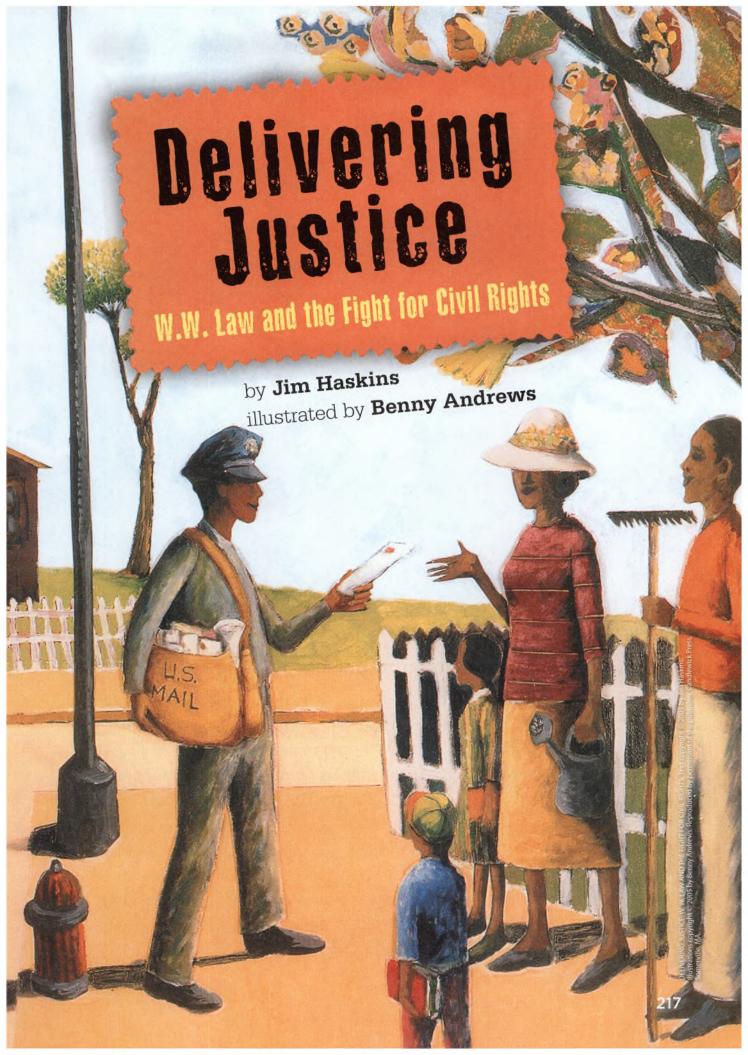
#### **Make Connections**

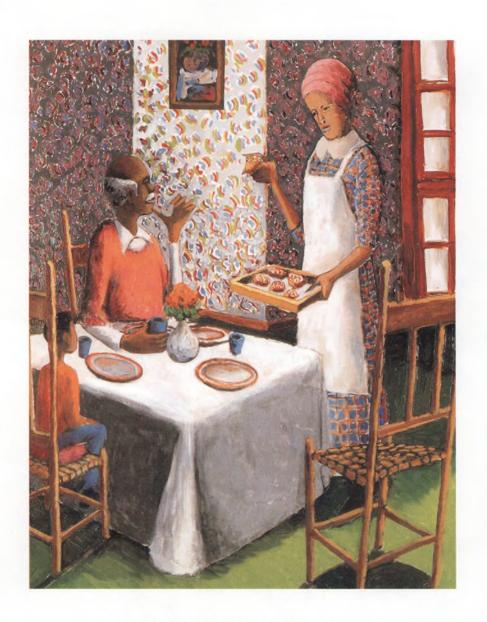


In what ways are these young people making a difference? **ESSENTIAL QUESTION** 

Describe the role of public service. Use examples from the selections. TEXT TO TEXT







#### Savannah, Georgia, 1932

The smell of his grandma's biscuits lured Westley to the kitchen. Westley was excited because today was Thursday, the day he would see his mother. The rest of the week, she worked for a white family just outside Savannah, cooking, cleaning, and taking care of their children. This was her day off.

Grandma's friend Old John was sitting at the table. Westley loved listening to the old man's stories. Old John had been born a slave. He had been taken from his mother and had never known her. He was nine—Westley's age—when he and all the slaves were freed in 1865. Westley felt lucky—at least he saw his own mama once a week.

#### Easter Shopping at Levy's

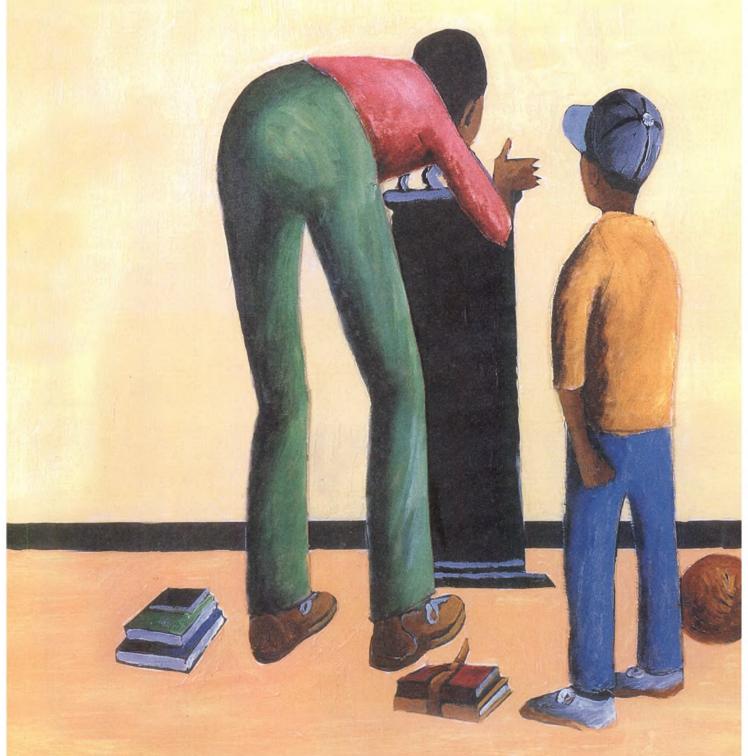
Once a year, sometime before Easter, Grandma would take Westley downtown to Levy's Department Store on Broughton Street to buy one nice outfit. They used a Levy's charge card and then paid a little bit each month.

On one shopping trip, the saleswoman would not serve them until after all the white customers had been helped. Westley had heard the saleswoman politely call the white women customers "Miss" and "Mrs." But she treated his grandma as if she were a child, a nobody.

Westley's grandma pretended not to notice. She was polite. But she was also proud. "Come on," she said, "it's time to go home." They left the store without buying a thing.



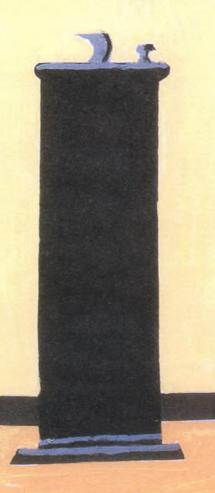






#### Segregation

Back then, black people weren't treated as well as white people. Most of the time, they were kept segregated from whites. Westley went to a separate school for black children. He had to drink from water fountains marked "Colored." He could not sit and eat at the Levy's lunch counter.



#### STOP AND CHECK

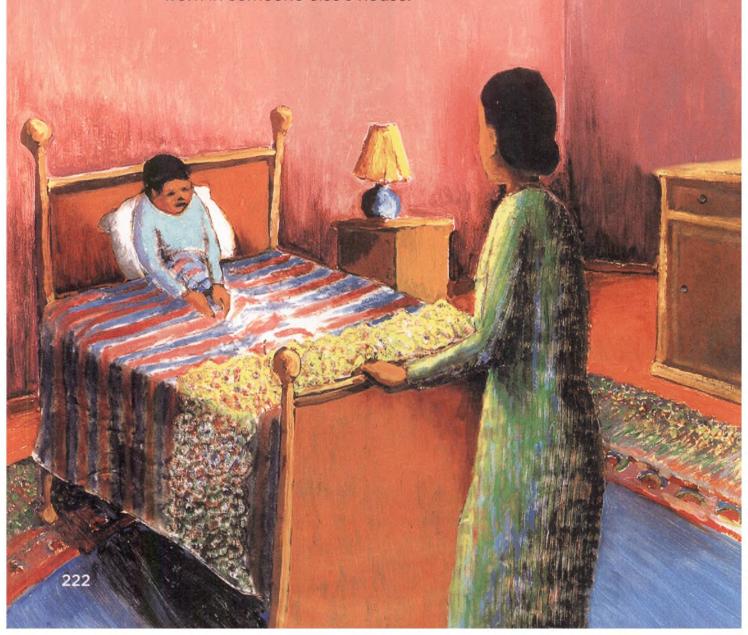
Reread Why couldn't Westley eat at the Levy's lunch counter? Reread to check your understanding.

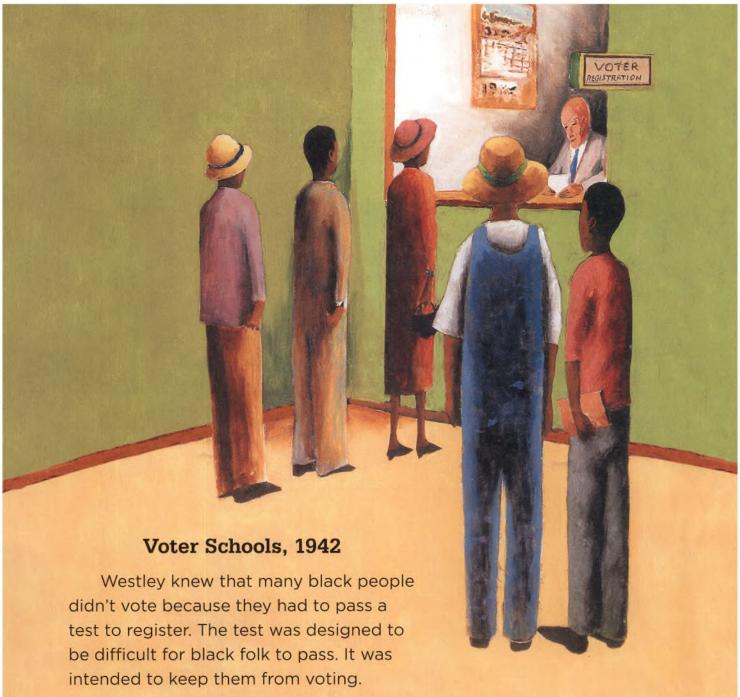
#### His Grandma's Prayers

Sometimes Westley got angry that black people were **mistreated** and that no matter how hard his mother worked, they were still poor. But his grandma was always there to talk with him. She understood why he was upset, but she didn't want him to have bad feelings about himself.

She said that no matter how he was treated, he had no excuse not to "be somebody." She told him again about the day he was born. She said, "I got on my knees and prayed that you would grow up to be a leader of our people."

Westley promised himself that he would **fulfill** his grandma's prayer. He also promised himself that he would work hard so that one day his mother would not have to work in someone else's house.





Westley was a member of the Youth Council of the NAACP—the National Association for the Advancement of Colored People. The Youth Council started a special "voter school" in the basement of a church.

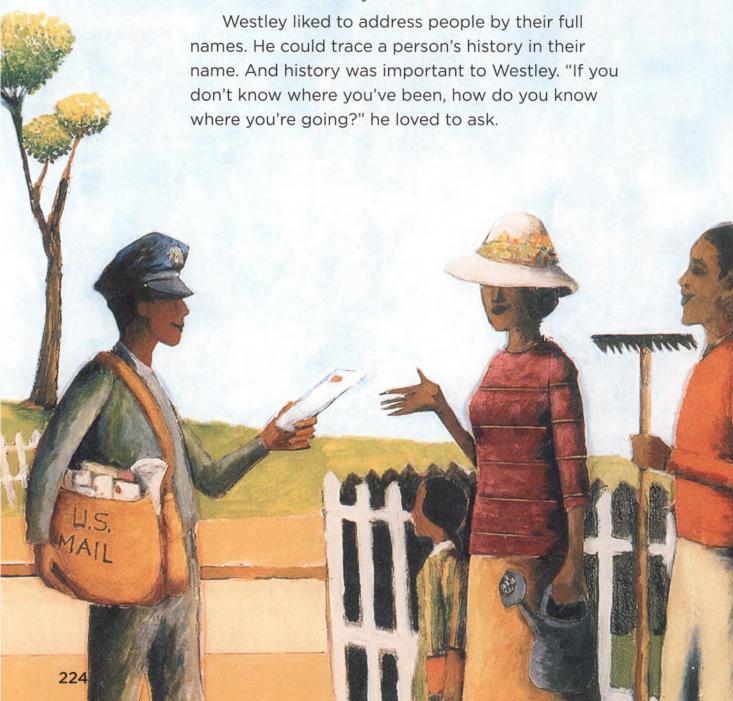
With his friend Clifford, Westley talked to everyone, even passersby, about voting. When he found someone who, scared by the test, had never **registered** to vote, he took them to the voter school. When they felt ready to take the test, Westley went with them to the courthouse and stayed until they were registered. With Westley's help and **encouragement**, many black people in Savannah became registered voters.



After college and the army, Westley wanted to be a teacher. But because of his membership in the NAACP, no one in Savannah would hire him.

So Westley became a mailman. The postal service hired **qualified** people, regardless of their color. As it turned out, this job suited Westley just fine.

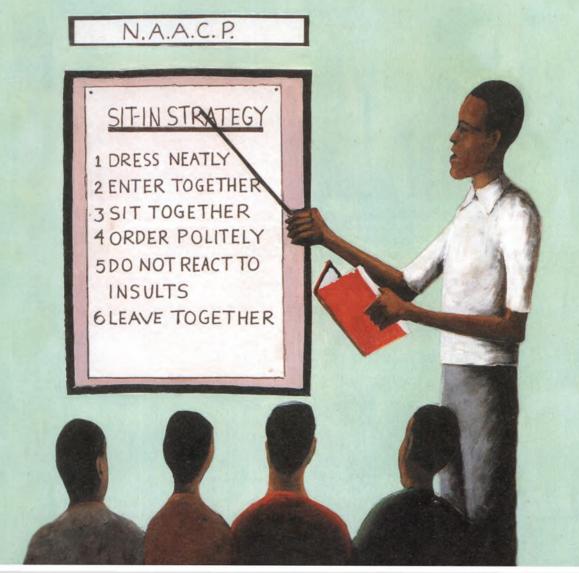
"Good morning, Miss Sally Lawrence Jenkins," Westley sang out to a young woman in her garden. "Here's a letter from your sister."

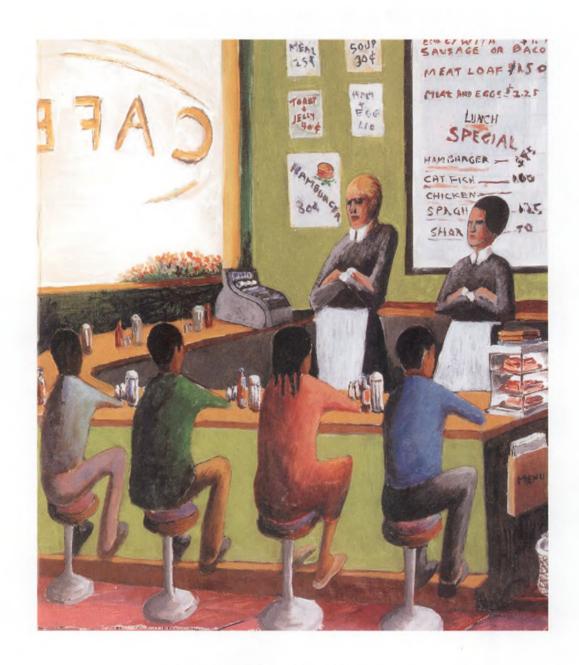


#### At the NAACP Office, February 1960

After work, Westley spent long evenings at the NAACP office. One night, he was visited by a group of students who were excited about what was happening in Greensboro, North Carolina. Young black people there had staged a sit-in at a lunch counter in a local store. They had refused to leave until they were served.

The students standing in front of Westley wanted to do the same thing at the department stores on Broughton Street. But they needed a leader. Westley remembered how his grandma had been treated at Levy's, and he agreed to help. But first, the students had to be trained. They had to **protest** without ever using violence, even if the other side did. If they were attacked and they fought back, Westley told them, their cause would be lost.





#### Levy's Lunch Counter

After weeks of training, small groups of students made their way downtown, entered the big stores along Broughton Street, and sat down at the lunch counters. The stores refused to serve them. At Levy's, the manager called the police, who arrested the students for breaking the city's segregation laws.

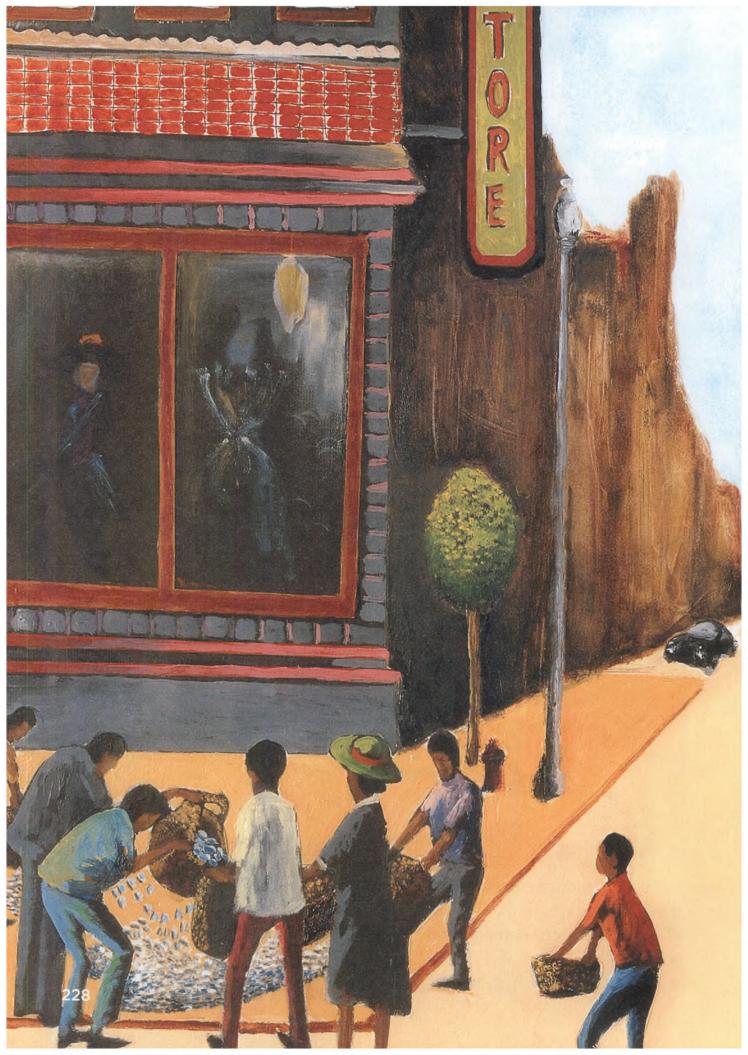
#### **Throwing Down Their Cards**

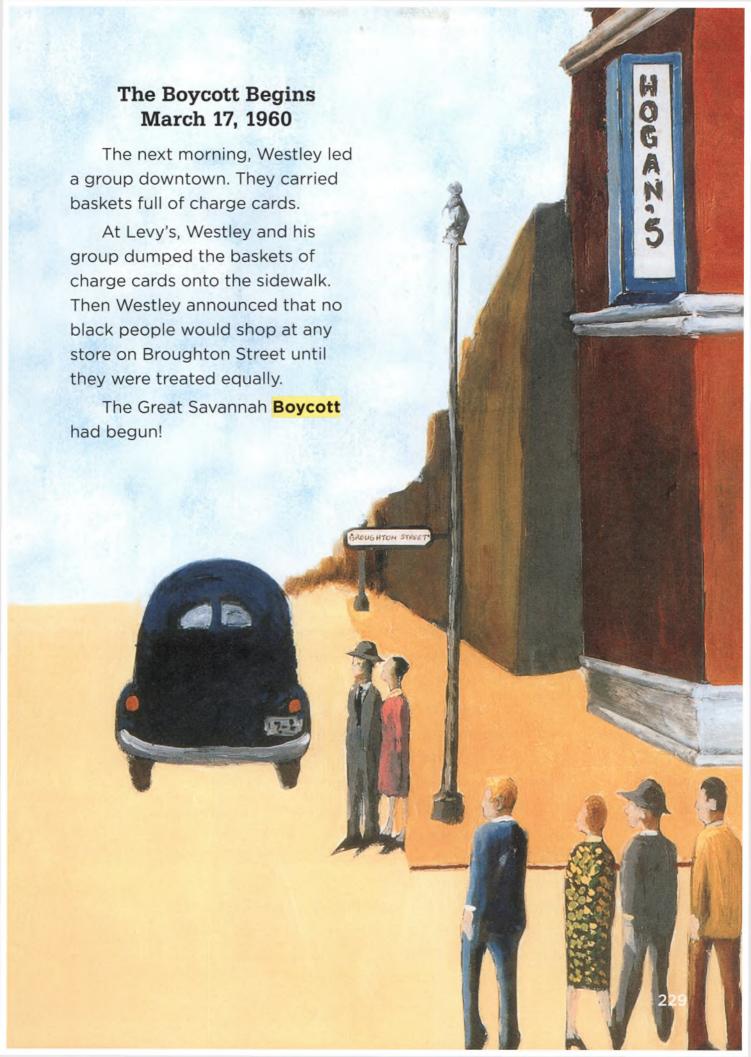
Westley called a mass meeting the next Sunday at the Bolton Street Baptist Church. People filled the pews and balconies. Westley opened the meeting with a hymn. All the voices singing together made a thunderous sound. And the mighty noise made people think that perhaps working together, they could really make something happen. Westley spoke about the arrests of the young people at Levy's. He said that things had to change, and he asked if people were ready to fight for their rights.

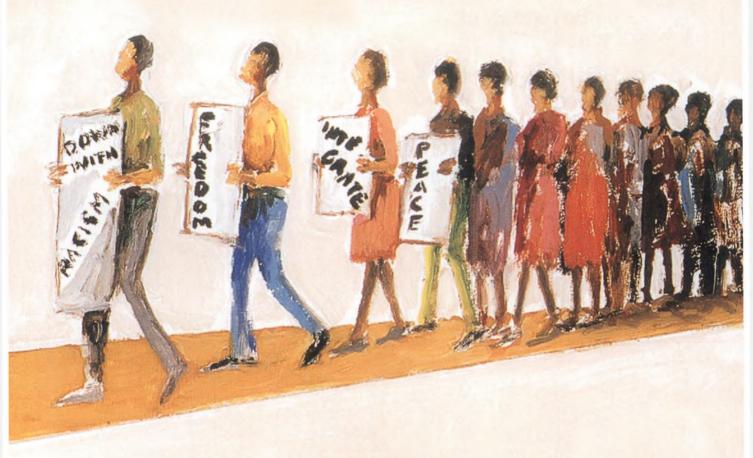
Someone shouted, "I'll never shop at that store again!" Then someone in the balcony threw down a Levy's charge card.
Soon, everyone was tossing charge cards into a big pile in the church.

STOP AND CHECK

Reread Why did people throw their charge cards into a pile during Westley's meeting? Reread to check your understanding.







#### **Picket Lines**

Westley and other members of the NAACP organized a picket line every day in front of Levy's. White people yelled and jeered at the protesters and tried to force them off the sidewalk. But day after day, the protesters returned.

One day a large, burly white man punched one of the demonstrators in the face and broke his jaw. But everyone remembered what Westley had taught them. They didn't yell or fight back, no matter how much they wanted to.

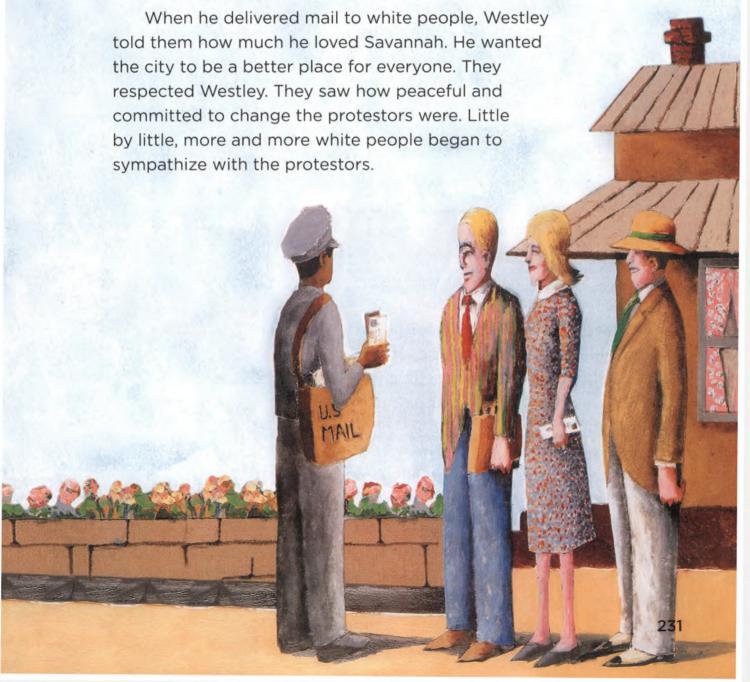
Westley organized other protests. There were kneel-ins at the white churches on Sundays and wade-ins at the all-white beach at Tybee. Westley wanted to end segregation everywhere in Savannah—in libraries, theaters, public pools, beaches, and restrooms, as well as at lunch counters.

#### **Talking About Peaceful Change**

Large meetings were held every Sunday at different churches. Protestors talked about their activities; some gave fiery speeches. The meetings became so popular that no church was big enough to hold everyone who wanted to get in.

For a year and a half, no one from the black community shopped on Broughton Street.

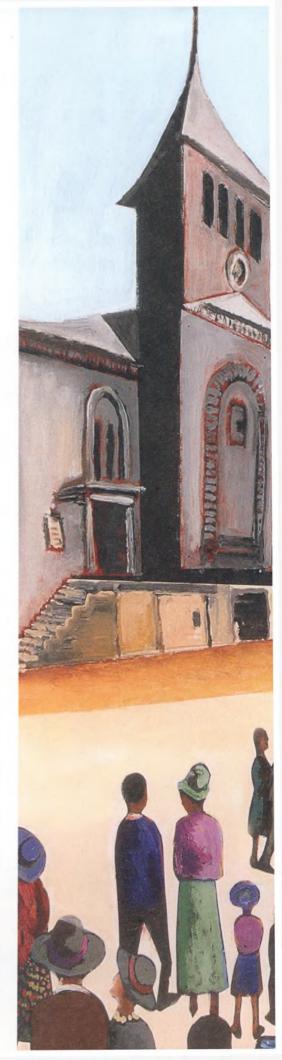
Westley walked down the street and started counting: One, two, three, four, five GOING OUT OF BUSINESS signs. The white storeowners couldn't stay in business without black customers.



#### Desegregation Without Violence

White people in the community who supported Westley asked what they could do to end segregation and stop the boycott. Together, leaders from the white and black communities worked out a plan. Each evening after delivering the mail, Westley organized a group of students to sit in a different kind of business or facility the next day. The theaters would be first, then the restaurants, then the library, and on down the line until every business had been desegregated.

Sometimes angry crowds would gather, or white people would leave in protest when the black students arrived. But most of the white and black leaders stuck together. The mayor made sure that all the signs marking separate facilities for blacks and whites at City Hall, the courthouse, health department, and hospital were taken down. City officials took the segregation laws off the books. Unlike desegregation efforts in other cities and towns in the South, there was very little violence in Savannah.

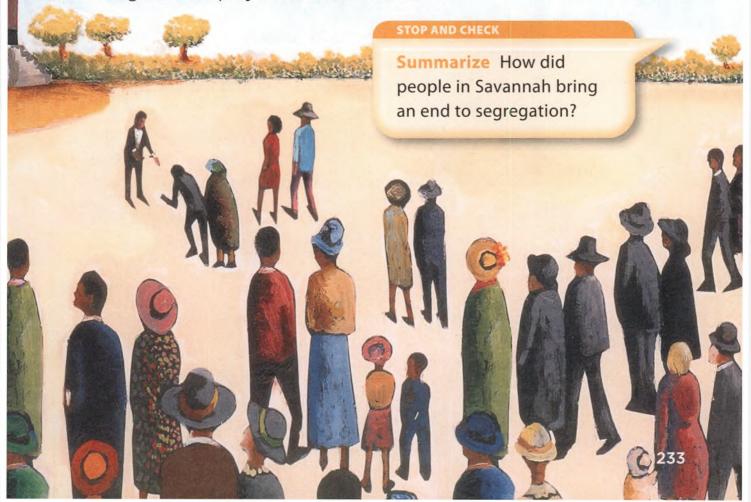


#### Justice Delivered

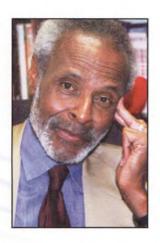
On a Sunday in September 1961, Westley greeted the hundreds of people who arrived at a downtown Savannah church. Inside, their voices joined together to sing out, "We are Soldiers in God's Army." When the song ended, Westley stood in front of the crowd. He saw his mother sitting in the front row. He saw students who had been arrested. He saw faces beaming with pride. Then he announced in a loud clear voice, "We have triumphed!"

Savannah was the first southern city in the United States to declare all its citizens equal, three years before the federal Civil Rights Act made all segregation illegal. People, both black and white, saw Westley as Savannah's hero. He had kept the protest disciplined and peaceful, even in face of the violence. Modestly, he would say, "I was just doing what every black American should be doing."

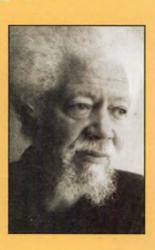
Westley Wallace Law delivered more than just the mail to the citizens of Savannah; he delivered justice, too. His grandma's prayers had been answered.



### About the Author and Illustrator



Jim Haskins was born in 1941 in Alabama at a time when the South was segregated. Jim loved to read, but African Americans were not allowed to use the library. A white woman who knew Jim's mother agreed to check out books for him. Like Westley Law, Jim fought for civil rights. As an author, he has won many awards for his books.



Benny Andrews's early days were spent picking cotton in Georgia with his parents and nine siblings. His father painted in his free time and passed his love of art to his son. Benny became a world famous painter and was a teacher for many years. Like Westley Law and Jim Haskins, Benny Andrews fought for equal rights for all people.

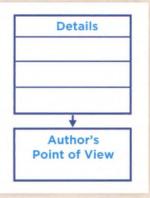
#### **Author's Purpose**

Why does the author often start a section with the year in which the action took place?

#### Respond to Reading

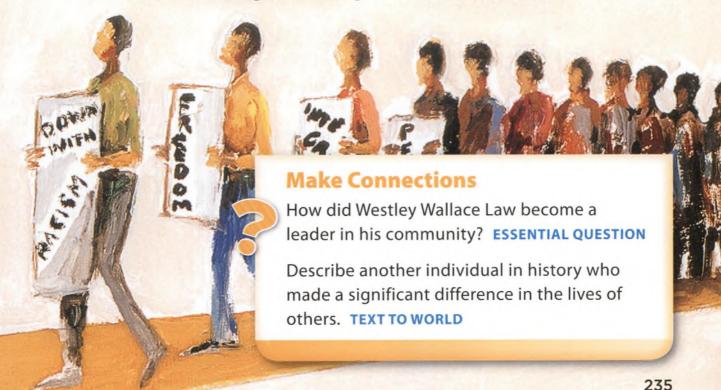
#### Summarize

Use important details from *Delivering Justice* to summarize the selection. Information from your Author's Point of View Chart may help you.



#### **Text Evidence**

- 1. How do you know that *Delivering Justice* is a biography? Use examples from the selection to support your answer. **GENRE**
- 2. Why does the author believe that Westley Wallace Law made a difference in Savannah? Include two details from the selection that support the author's point of view. AUTHOR'S POINT OF VIEW
- 3. What is a synonym for the word segregation on page 232?
  Use context clues to help you. SYNONYMS AND ANTONYMS
- 4. Write a paragraph that explains how the author most likely feels about the fight for civil rights. WRITE ABOUT READING

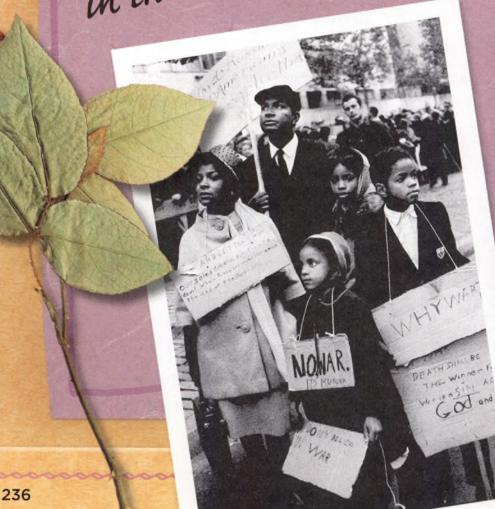


#### **Compare Texts**

Read how the events of the Civil Rights era changed a girl's life.

# Keeping Freedom in the Family:

coming of Age
coming of Age
in the Civil Rights Movement
by Nova Davis Day



The Davis family at a rally for peace in New York City. From left to right: Mom, Dad, La Verne, me, and Guy. Guy made our picket signs!

agos), secer resz rhotodas Caetty Images, kichard Price/Taxi/Getty Imag Setty Images, photosindla/Royalty-free/Getty Images; (I) Russell Illig/Phot (r) Bruce Davidson/Magnum Photos

## "What do we want? Justice! When do we want it? Now!"

As I held on to my father's hand, we joined the line of people chanting and walking back and forth in a picket line in front of Lawrence Hospital. The year was 1965, and the hospital workers needed more money and better working conditions. So there we were on a cold Saturday afternoon to protest. When I looked up, I saw soldiers on the roof of the hospital. I squeezed Daddy's hand a little tighter. The soldiers were there to protect us, he said. We were American citizens, and we had the right to gather and to protest. I raised my picket sign as high as I could. I wasn't afraid. I had Daddy and the American Constitution to protect me.

I couldn't wait to get back home to tell my brother and sister, Guy and La Verne, about my day on the picket line. Dinnertime was always special at our house. We would sit around the table filling our mouths with food and our minds with

ideas. Mom and Dad encouraged us to talk about anything we wanted to—anything. Sometimes we talked about our family. About Dad's childhood in segregated Waycross, Georgia, and Mom's love for Harlem, the part of New York City where she grew up. Other times we talked about big ideas like democracy, freedom, justice, and civil rights.



I was in fourth grade when I met Judge J. Waties Waring. His court decisions paved the way for school desegregation and voter registration in the South.

Some days, Mom and Dad weren't home for dinner. They were actors—Ossie Davis and Ruby Dee—but because they were black, they didn't have the same opportunities and rights as other citizens. They decided to use their lives as actors to make a difference. They wanted to make America a place where <code>injustice</code> was not welcome and where Guy, La Verne, and I would always feel like we belonged.

And so it was that my ordinary life of chores and homework and hopscotch soon became extraordinary. Every day there were new ideas to talk about at dinner. We learned new words like *nonviolence*, *sit-in*, and *boycott*. Whenever they could, Mom and Dad took us with them to programs, **protests**, and picket lines.

Two years earlier, in 1963, we had moved into our new house and had gotten our first television set—just in time for one of the most important years in American history. We weren't allowed to watch TV during the school week, unless something really important was going on—like the March on Washington. When Martin Luther King, Jr., gave his famous "I Have a Dream" speech, I wished I could be there with Mom and Dad. I asked myself what kids like me could do to make a difference. Later that year, I had an

answer to my question.

When four black girls were killed in a church bombing in Alabama, we realized that the fight for change would be hard, long, and dangerous. Mom and Dad encouraged us to think about how we could protest the bombing. Some people said we should boycott Christmas. This was our first Christmas in the new house, and the spirit of giving was important to us.

Daddy at the March on Washington for Jobs and Freedom in 1963. He and Mom were emcees.



So, instead of boycotting Christmas, our family decided to boycott Christmas shopping. Instead of buying gifts, our family gave the money to civil rights groups. Guy, La Verne, and I gave each other gifts we had made with our own hands. And when the time came to hang

the home-made paper holiday chain, I wrote the names of the girls in the last four loops. In our own small way, we learned the true meaning of giving.

When we gathered for dinner that night, we said a special prayer for the girls and for our country-and I knew that Christmas at the Davis house would never be the same.



My sister, my brother, and me at the White House in 1995. Mom and Dad got the National Medal of Art.

1950

**Nora Davis is** born in New York City.

1962

The family marches for peace in New York City.

1965

**Hospital** workers picket in Bronxville, New York for 55 days. 1985

Nora boycotts U.S. companies doing business in segregated South Africa.

1959

Nora and Guy meet **Judge J. Waties** Waring, a champion of civil rights.

1963

The 16th Street **Baptist Church** in Birmingham, Alabama is bombed. 1972

Nora votes in her first presidential election.

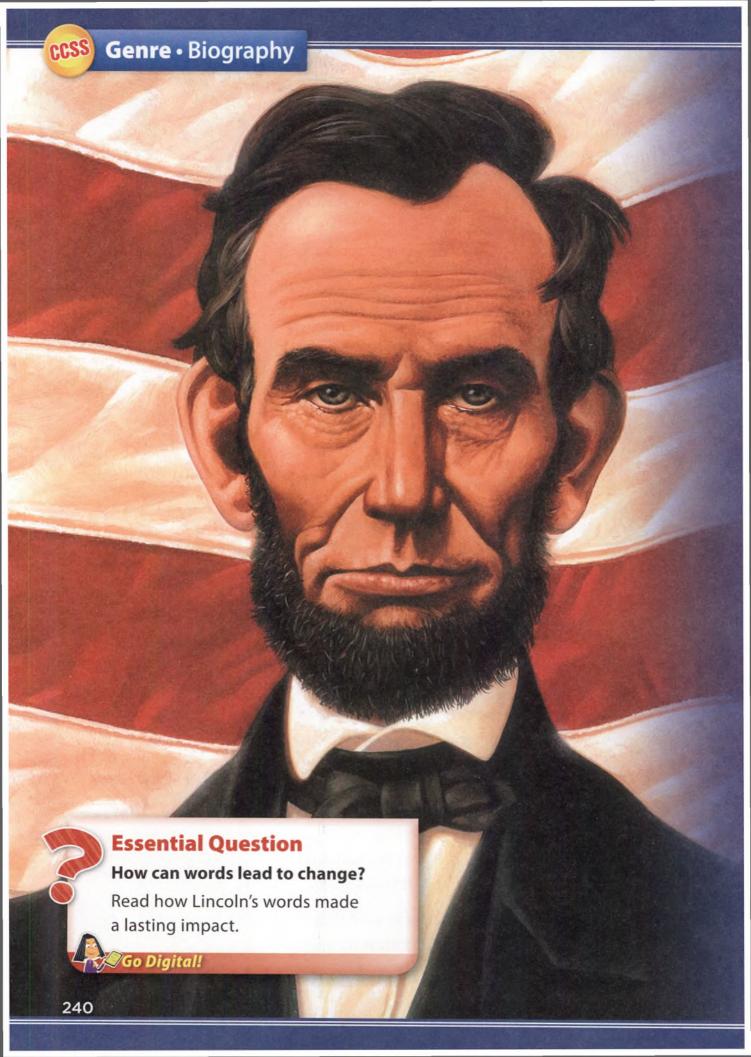
2001

Nora speaks to students at her local high school about social justice.

#### **Make Connections**

How did the events of the Civil Rights era influence Nora Davis Day's life? **ESSENTIAL QUESTION** 

Compare Nora Davis Day's experiences with those of others who made a difference. Contrast how each selection presents information. TEXT TO TEXT



# ABE'S HONEST WORDS

THE LIFE OF

Abraham Lincoln

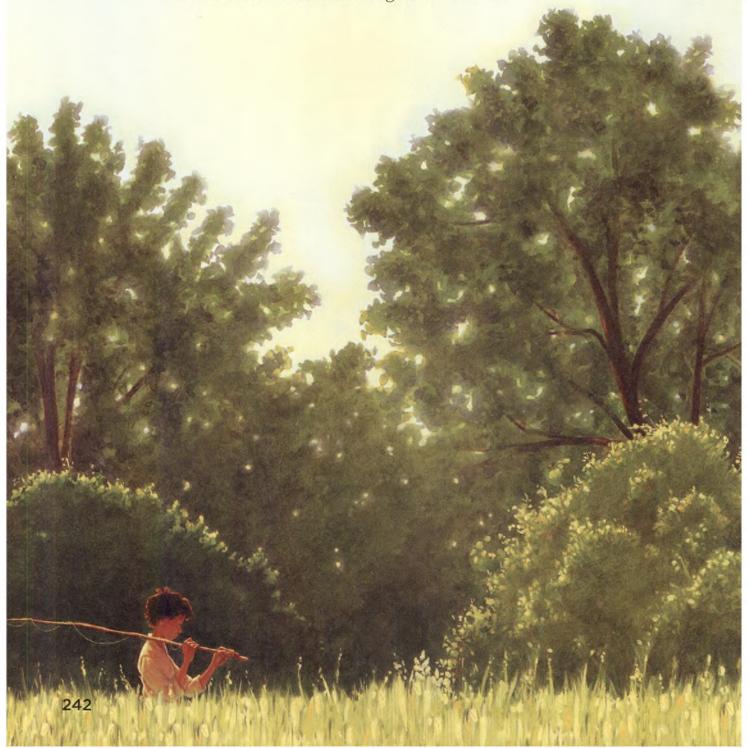
by **Doreen Rappaport** illustrated by **Kadir Nelson** 

In the slave state of Kentucky, deep in the wilderness, young Abraham learned to hunt for nuts and currants and fish for trout and bass and tend to soil and seed.

He learned sorrow at age nine when his mama died. But he found great joy with a loving stepmother, who encouraged him to read and learn.

Abraham Lincoln is my name, and with my pen I wrote the same, I wrote in both haste and speed and left it here for fools to read.

The family moved deeper into the wilderness, to the free state of Indiana. Panther screams and prowling bears filled Abraham's nights with fear.







He had just a mite of schooling, yet he loved words the way his papa, a master storyteller, did. He stuffed books inside his shirt. In between splitting wood and plowing, he stood in the field and read. He read some books so many times, he knew whole parts by heart.

The things I want to know are in books; my best friend is the man who'll get me a book I ain't read.

#### STOP AND CHECK

**Reread** How did Lincoln feel about reading? Reread to check your understanding.

Another move, to New Salem, a village in Illinois. The long, lanky boy was a man now. He ferried people and goods down the Ohio and Mississippi rivers.

In between the pull of the pole and the splash of the water, he listened to hunters spin tall tales of a mighty marksman, "half man, half alligator," and sailors describe giant mosquitoes that could kill a man.

He heard lawyers tell how they used words to gain justice for ordinary folks. He heard preachers quote from the Bible: "A house **divided** against itself cannot stand."

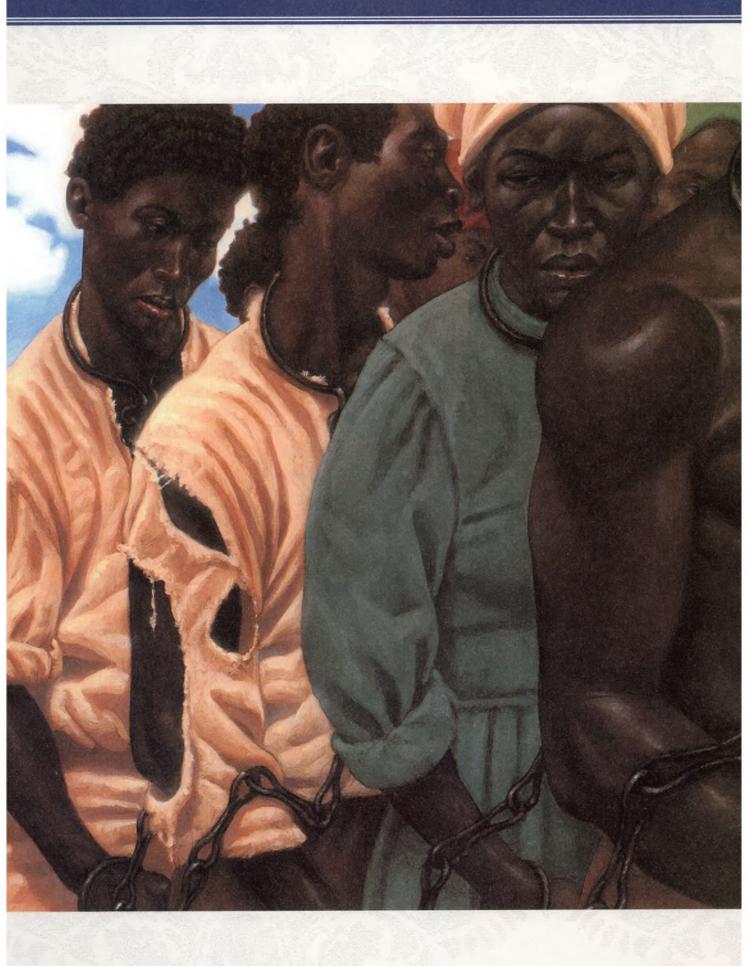
He stored these different voices in his heart and wove them into his own words.

The long, muddy Mississippi River brought Lincoln south to New Orleans.

He walked on cobblestone paths and along canals, past flowers spilling over lacy iron balconies. He saw men and women in fancy clothes, eating fancy foods and sipping wine. French, Spanish, and English words filled his ears. But a hideous sight **shattered** his joy.

Twelve Negroes, chained six and six together. Strung together like so many fish upon a trotline, being separated forever from their childhood, their friends, their fathers and mothers, and brothers and sisters, from their wives and children, into perpetual slavery.

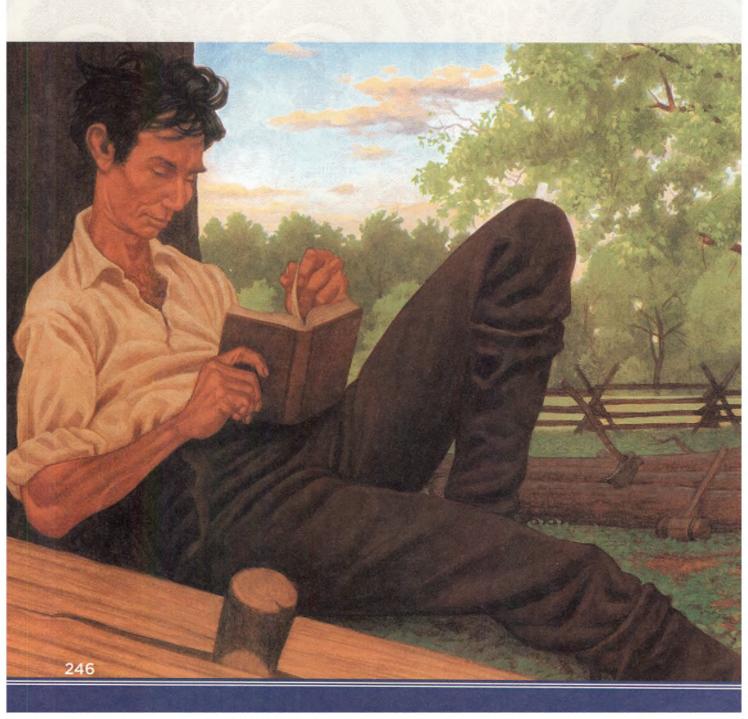


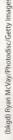


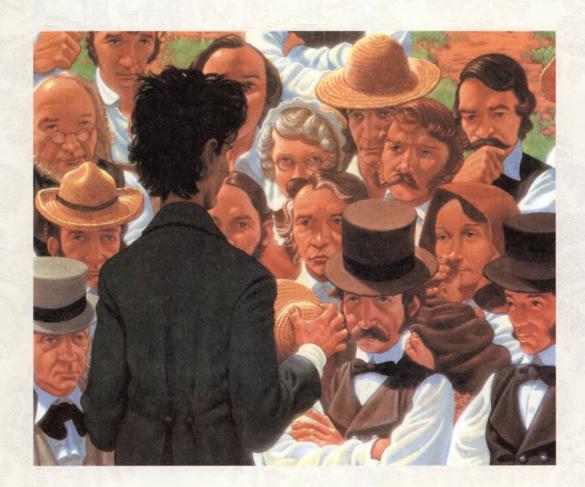
Lincoln worked at many jobs—farmhand, store owner, postmaster, surveyor, rail-splitter.

Wherever, whatever, he always had a book in hand. Elocution, grammar, mathematics, biography, history, poetry, plays.

Upon the subject of education, I view it as the most important subject which we as a people can be engaged in.







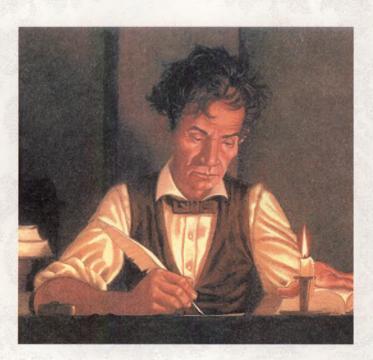
America was growing. Farmers needed new waterways and railroads to ship their crops. Everyone needed better education. If he became a lawmaker, he could help people get these things, so he ran for the Illinois state legislature.

He spoke in public squares and country stores and hayfields.

I am young and unknown to many of you. I was born and have ever remained in the most humble walks of life. I have no wealthy or popular relations to recommend me.

He lost the election. But people liked what he said and how he said it.



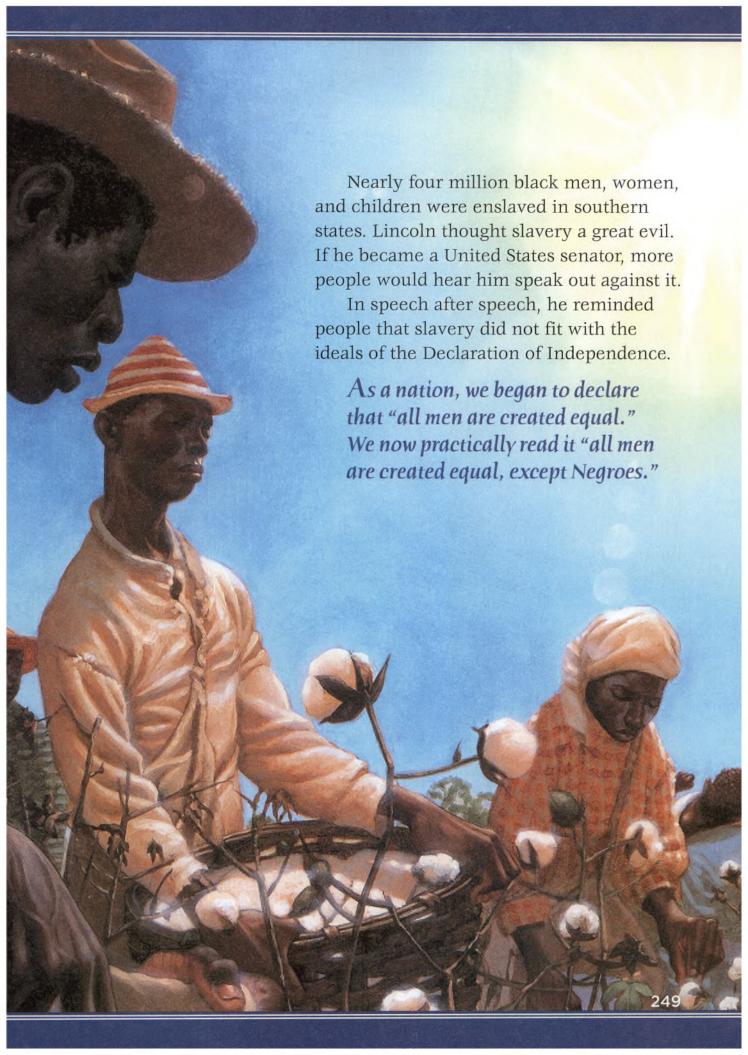


He ran again. This time he won. He ran three more times and won.

He became a lawyer. His clients praised "'Honest Old Abe,' the lawyer who was never known to lie." He didn't like the nickname Abe, but it stuck.

Resolve to be honest at all events and if you cannot be an honest lawyer, resolve to be honest without being a lawyer. Choose some other occupation.



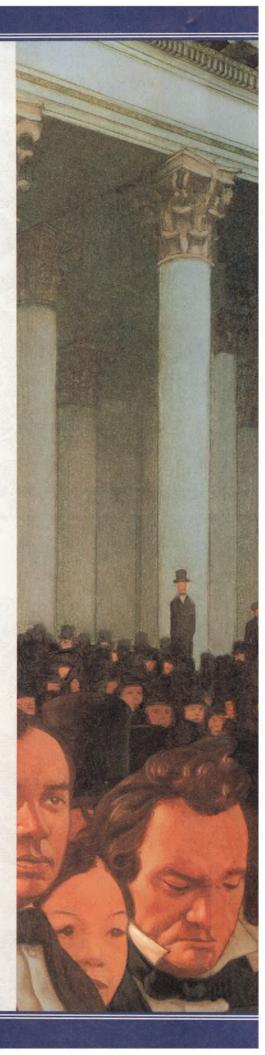


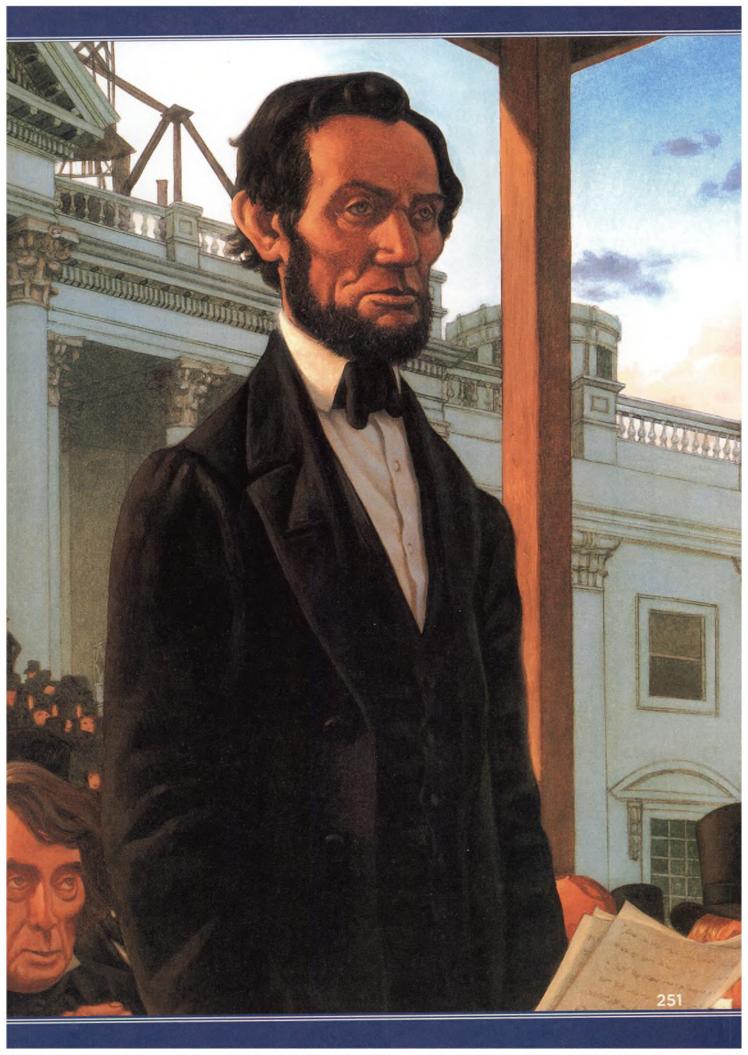
He lost the election. But again, his words got much attention. People felt he spoke from his heart.

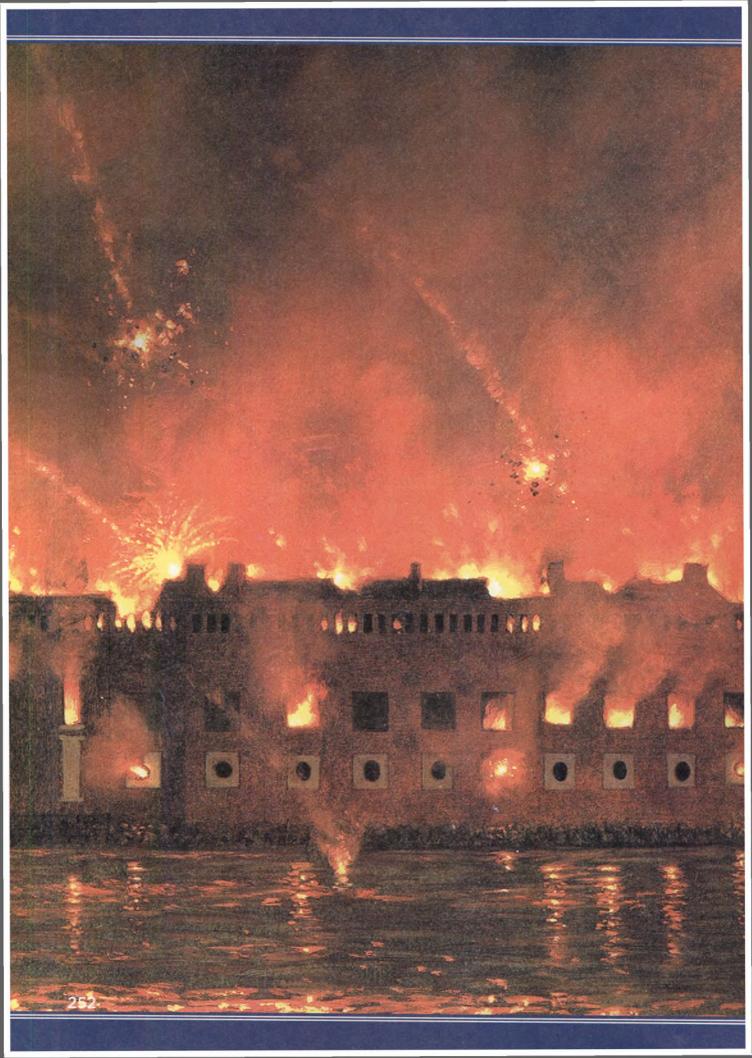
In the next two years, **tension** over slavery grew between the South and North. Lincoln ran for president and spoke out against this evil practice. He won this election.

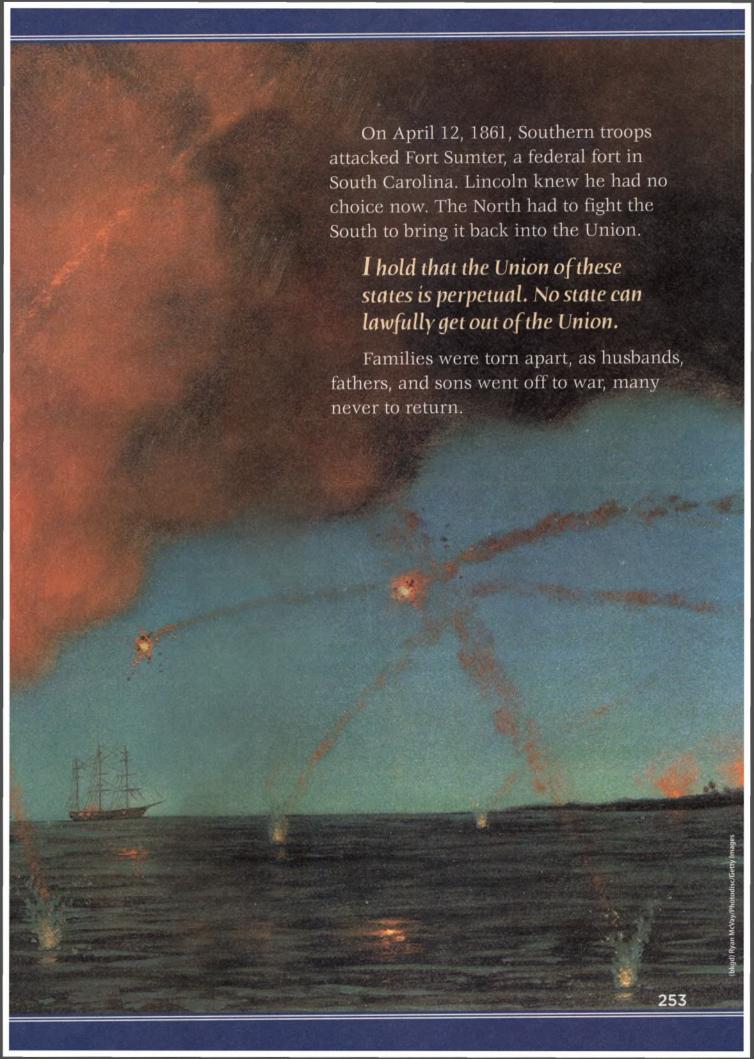
But a month before he took office, seven southern states left the Union. They formed their own government with their own president. In his first inaugural address, Lincoln reminded Americans that they were *one* people.

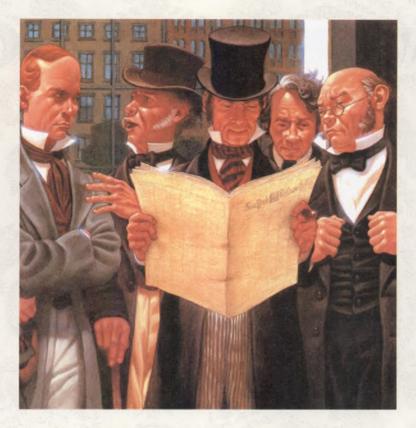
We are not enemies, but friends. We must not be enemies.











Many Northerners worried that Lincoln did not have the skills to lead the nation in this terrible time:

"He's too backwoods."

"He's unpresidential."

"He tells too many silly jokes."

"He's had too little experience in government."

If I were to try to read, much less answer, all the attacks made on me, this shop might as well be closed for any other business. I do the very best I know how—the very best I can; and I mean to keep doing so until the end.



Lincoln believed that true liberty could not permit slavery. He decided to use his wartime powers as commander in chief to end slavery.

In the third year of the war, he issued the Emancipation **Proclamation**. It freed over three million black men, women, and children and called for black men to join the Union army.

In giving freedom to the slave, we assure freedom to the free.

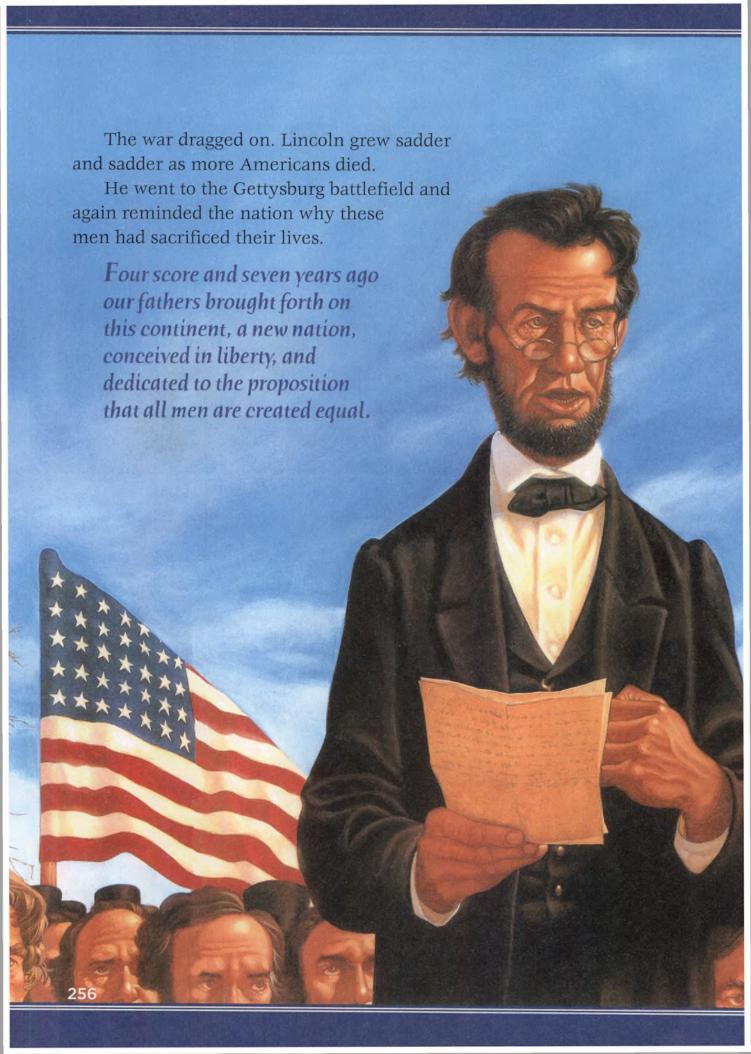
Most white Northerners **opposed** Lincoln's proclamation. But he stood firm.

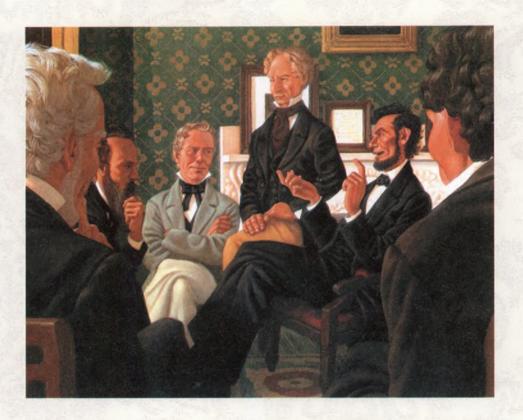
I never, in my life, felt more certain that I was doing right, than I do in signing this paper. My whole soul is in it.

### STOP AND CHECK

**Reread** Why did Lincoln issue the Emancipation Proclamation? Reread to check your understanding.







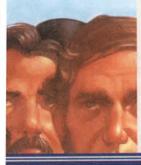
The Emancipation Proclamation had freed slaves only in the states and territories that were in rebellion. Lincoln wanted slavery ended in the entire nation.

Most white lawmakers did not want this. He called them to the White House to convince them of what he knew was right.

## The moment came when I felt that slavery must die that the nation might live!

Finally, they agreed.

In the fourth year of the war, victory seemed close for the North. But Lincoln felt no joy. Hundreds of thousands of men on both sides had died in battle. The country was deeply divided. Many Northerners wanted to punish the South for starting the war. Southerners were furious that the Union army had destroyed their cities and homes and crops. Could the nation ever be one people again?



In his second inaugural address, Lincoln shared his vision of how the country could heal itself.

With malice toward none; with charity for all; with firmness in the right, as God gives us to see the right, let us strive on to finish the work we are in; to bind up the nation's wounds.

The South finally surrendered. The job of healing the nation began. But Lincoln was not there to help. An assassin's bullet ended his life.

But his words were there to guide those who chose to remember.

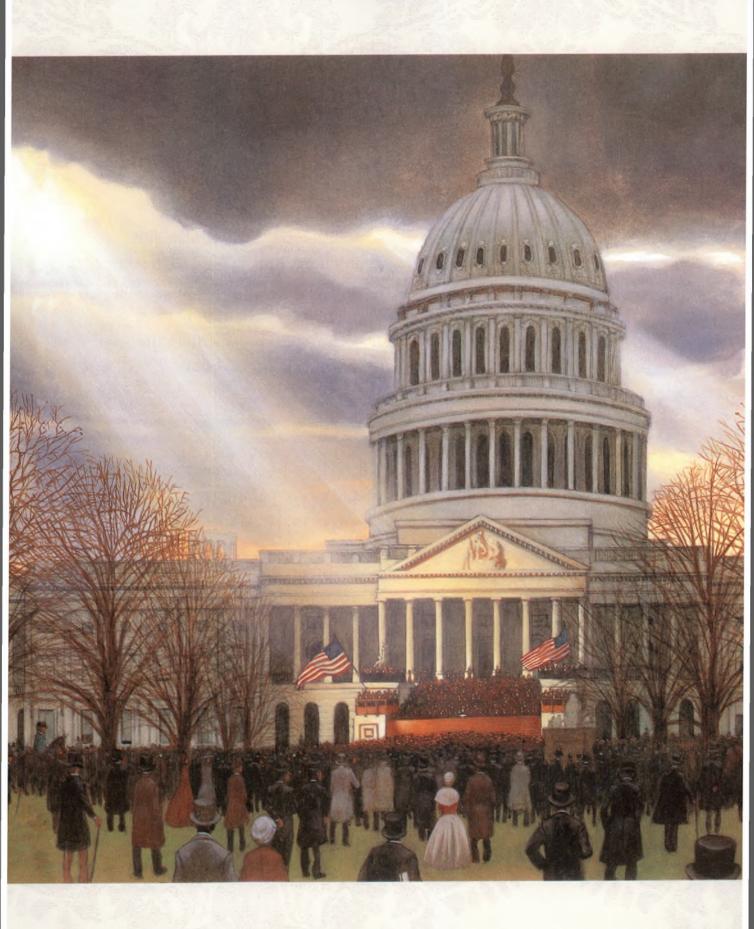
It is for us the living, rather that we here highly resolve that these dead shall not have died in vain—that this nation, under God, shall have a new birth of freedom—and that government of the people, by the people, for the people, shall not perish from the earth.

### STOP AND CHECK

## **Ask and Answer Questions**

What did Lincoln mean by "bind up the nation's wounds"? Go back to the text to find the answer.



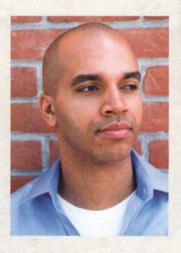


# bkgd) Ryan McVay/Photodisc/Getty Images; (t) Kenneth Kast; (b) Kadir Nelson

## ABOUT THE AUTHOR AND ILLUSTRATOR



Words have always been important to **Doreen Rappaport**. Growing up, she wanted to be a singer and learned the words to many songs. She was also quite talkative in school. In fifth grade, Doreen memorized the Gettysburg Address—and she still remembers much of it. Doreen finds ideas all around her and likes the challenge of writing a good book.



Kadir Nelson began drawing at age three and began painting at age ten. When he was in fourth grade, his uncle, an artist and art teacher, made Kadir his art studio assistant. Before Kadir created the paintings for *Abe's Honest Words*, he took photographs of Lincoln's home and law offices in Springfield, Illinois.

## **Author's Purpose**

Why did the author use the actual words of Abraham Lincoln throughout the biography?

## RESPOND TO READING

## **Summarize**

Summarize Abe's Honest Words. Include key historical details from the text that explain Lincoln's impact as the 16th president of our nation. Use your Author's Point of View Chart to help you.

## Details Author's Point of View

## **Text Evidence**

- Explain how you know that Abe's Honest Words is a biography. Identify features of this genre in the selection. GENRE
- 2. What is the author's point of view about slavery? Use evidence from the text to support your response.

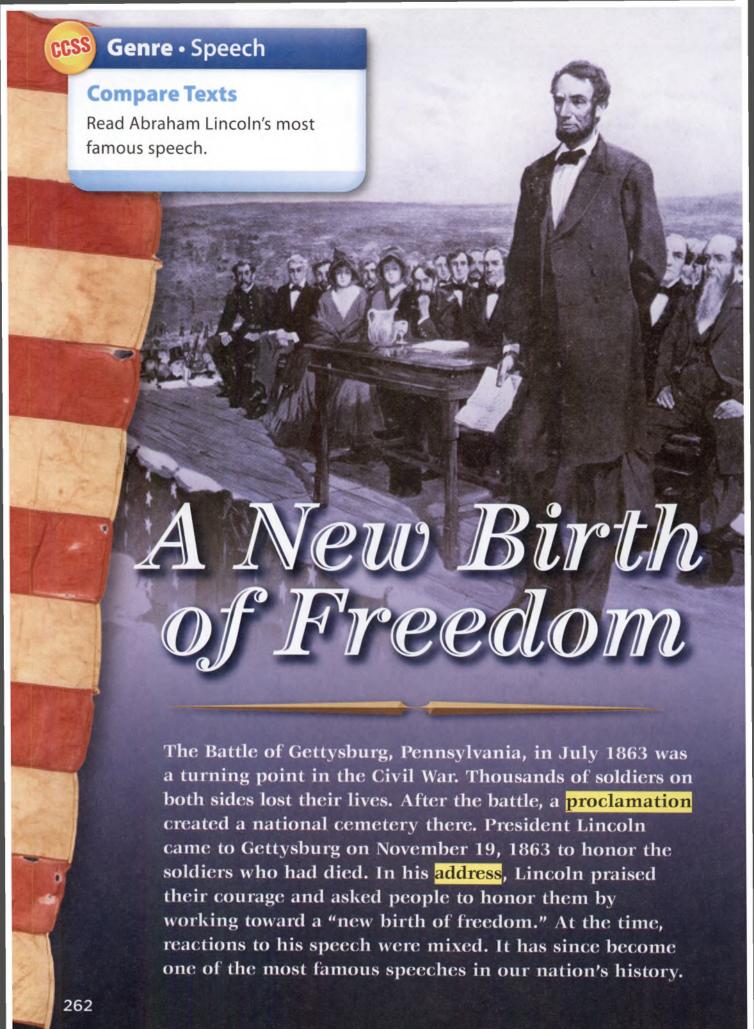
  AUTHOR'S POINT OF VIEW
- 3. Use context to define the word *election* on page 247. Explain how knowing the Latin suffix *-ion* helped you.

  LATIN AND GREEK SUFFIXES
- 4. Write about how this biography would be different if the author did not support Lincoln's views on slavery. WRITE ABOUT READING

## **Make Connections**

Why did Lincoln's words leave such a lasting impression on people? **ESSENTIAL QUESTION** 

Words have the power to make people think and act differently. How can words create change in the world today? **TEXT TO WORLD** 



## The Gettysburg Address

Four score and seven years ago our fathers brought forth on this continent, a new nation, conceived in liberty, and dedicated to the proposition that all men are created equal.

Now we are engaged in a great civil war, testing whether that nation, or any nation so conceived and so dedicated, can long endure. We are met on a great battlefield of that war. We have come to dedicate a portion of that field, as

a final resting place for those who here gave their lives, that that nation might live. It is altogether fitting and proper that we should do this.

But, in a larger sense, we cannot dedicate—we cannot consecrate—we cannot hallow—this ground. The brave men, living and dead, who struggled here, have consecrated it, far above our poor power to add or detract. The world will little note, nor long remember what we say here, but it can never forget what they did here. It is for us the living, rather, to be dedicated here to the unfinished work which they who fought here have thus far so nobly advanced. It is rather for us to be here dedicated to the great task remaining before us-that from these honored dead we take increased devotion to that cause for which they gave the last full measure of devotion—that we here highly resolve that these dead shall not have died in vain—that this nation. under God, shall have a new birth of freedom—and that government of the people, by the people, for the people, shall not perish from the earth.

## **Make Connections**

What purpose did "The Gettysburg Address" serve for people saddened by the terrible cost of war? **ESSENTIAL QUESTION** 

Describe other leaders whose words have made an impact on our nation's history. **TEXT TO TEXT** 

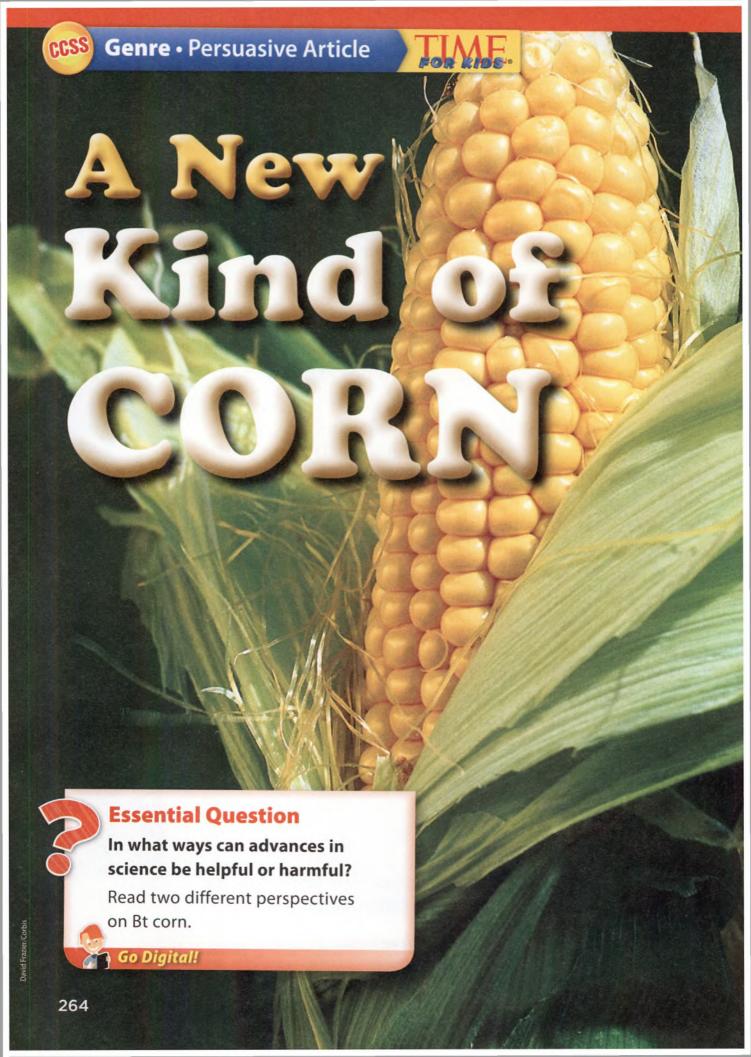
### Executive Mansion

Henry serve and severed years ago one father burgher forth, upon the continuence, a new nature tenses are liberty, and servere have to the proposition that all the proposition that

Now see any propagate in a great civil way topy whather that metical, or any mation so consume our se consumer on a great hard for any mation. The end tout on a great hattle faire of that one. The hand come to describe the faire of that one. The hand ing places for them who show how they that the sent tought from the one may be populated on this see they seem, her can set considered, and come set to provide the ground of the form they have come the hattern the ground. The brown that he was hardown to for dearn price from the house or whitether, they ground to make the hardown the section of the thirty for the work which the had been to access or whitether, the works which the had been forget what they day house of his to the the they day forget what they day house of his to the they day for the the they day house or his to the passes that they day house or his to the the they day house or his to the they day to the the they have the they had the









A European corn borer feeds on an ear of sweet corn. Some farmers are turning to Bt corn to keep pests like corn borers from damaging their crops.

Advances in science have changed the way farmers grow corn. These advancements have also made consumers think about what they eat.

ave you heard of Bt corn?

Probably not. But you have probably eaten it. Bt corn is grown all over the world. The crop is used in many foods, including tortilla chips and cornmeal. It is also used to make high fructose corn syrup, a sweetener **prevalent** in many foods and drinks.

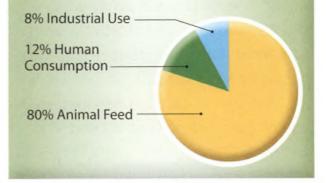
Bt corn is a genetically modified food. To make Bt corn, scientists change the genetic code of corn.

This code sets which **characteristics** the corn will **inherit**. Bt corn contains an insect-killing gene. The gene comes from a bacterium called

Bacillus thuringiensis, or Bt. These changes make the corn produce poison. The poison kills only insects that are harmful to it, such as rootworm beetles or caterpillars called European corn borers. This characteristic makes it unnecessary for farmers to spray pesticide in their cornfields.

## **Uses of Corn**

When you think of corn, it might call to mind fresh corn on the cob. But how much do humans actually consume? The pie chart below shows the uses of corn in the United States according to the Environmental Protection Agency.



### STOP AND CHECK

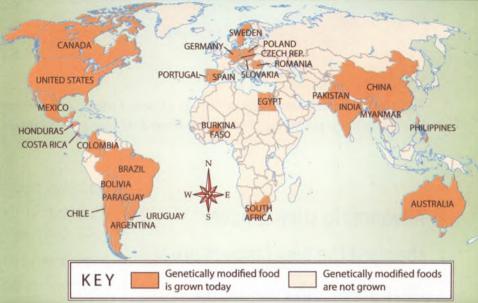
Reread What makes Bt corn appealing to farmers?



A scientist examines root damage from pests on a normal corn plant (left) and on Bt corn (right).

## Where Is GM Food Grown?

Though the United States is the biggest producer of genetically modified foods, enhanced crops are grown all over the world.





## **Bt Corn Is Better**

A Farmer's Perspective

I began growing Bt corn on my farm back in 1996. Up until that point, I never knew if what was planted would yield a crop I could sell. Now I am confident going into each growing season.

The use of Bt corn has lessened use of pesticides. That is great for the environment and saves time and money. I no longer have to spray the fields with costly pesticides. Further, I no longer worry about being exposed to the toxic chemicals.

Many people have raised concerns about the poison in Bt corn. It is only toxic to rootworm beetles and corn borers. Other insects seem to thrive where sprayed pesticides are not used.

Planting Bt corn has increased both profit and productivity on my farm and farms around the world. This makes it especially good for developing countries where corn is a staple in human and animal diets. The savings to farmers are passed on to people who buy the corn. Plus, having more food available in hungry nations is a very good thing. The benefits of Bt corn continue to grow. That is why more and more farmers are planting it in the fields.



## **Bt Corn Could Be Bad**

## A Consumer's Concern

Bt corn has been on the market since the late 1990s with little research on the long-term consequences. Yet farmers are producing genetically modified (GM) crops at an alarming rate. I can't help but wonder about these recent advancements in agriculture—what are the long-term effects of GM foods on humans and the environment? Is Bt corn really safe to grow and eat?

Much of the testing of GM foods has been done on lab rodents. The results of those tests haven't been very promising. In some reports, mice have developed lesions in their stomachs from eating GM foods. Rats have died prematurely for "unstated reasons" during these tests. If this is any indication of what may happen to humans, we should rethink stocking

A consumer who disagrees with the sale of Bt corn attends a protest.



our supermarkets with unlabeled GM foods. Consumers should know what they are buying and eating.

Over time, pests can build a resistance to any pesticide. A 2011 study shows that rootworm beetles are already developing resistance to Bt corn. If these rootworms can eat Bt corn and survive, why grow it?

There is also a growing concern about the impact of Bt corn on other insects, such as monarch caterpillars. Farmers have a responsibility to ensure their crops do not harm the physical environment and all of its inhabitants. To protect future generations, more research is needed for all of the effects of Bt corn to become clear.

## Respond to Reading

- **1.** How do you know that A New Kind of Corn is a persuasive article? **GENRE**
- 2. What does the author think about Bt corn? AUTHOR'S POINT OF VIEW
- 3. What is the definition of generations on page 267? Tell how the Greek root "gen" helped you determine the meaning. GREEK ROOTS
- **4.** Write about the positive and negative aspects of consuming genetically modified crops.

WRITE ABOUT READING

CCSS

**Genre** • Procedural Text

TIME.

**Compare Texts** 

Read how you can grow a giant pumpkin.

New World Record

## The Pick of the Patch

This world record-breaking pumpkin tipped the scales at more than 1,810 pounds. What is the secret to growing a giant gourd? According to record-breaker Chris Stevens, "Sunshine, rain, cow manure, fish [fertilizer], and seaweed." Read on for a recipe you can recreate at home.

www.giantveggiegardener.com: (c) Louis Quail/In Pictures/Corbis

knowledge and skill. Follow these six simple steps to grow your own great gourd.

## 1. Study up on seeds.

Some popular pumpkin seeds that get big results include Prizewinner Hybrid, Atlantic Giant, Mammoth Gold, and Big Max. Many are sold online for just \$1.

## 2. Take your time.

Giant pumpkins need time to grow.

May is a good month to plant seeds in a pot. Let them make advancements in that safe space before you transplant them outside. Plant them in good quality soil and fertilize them well.

## 3. Protect your pumpkin plants.

Watch out for bugs and other pests that could attack the plants. Prevent wind from damaging them by putting up a fence or plastic tarp.

## 4. Help your gourd grow.

Agriculture is a science that is not always automatic. Hand-pollinating the flowers will increase your chances of growing a giant gourd. Use a small paintbrush or cotton swab to spread pollen from the male flower to the female flower. A female flower has a little pumpkin at the base of its petals.



Before pollinating, make sure the flowers are open.

## 5. Pick your best bet.

Pumpkins compete with each other to get the best nutrients from the vine. In order to give your gourd a better chance to grow, select the best and biggest pumpkin on each vine and remove all other pumpkins.



Keep a daily record of your gourd's growth.

## 6. Continue with care.

Water and fertilize your pumpkins regularly until it is time to harvest. Weigh to grow!

## **Make Connections**



What steps can you take to grow a giant pumpkin? ESSENTIAL OUESTION

How can advances in science be helpful or harmful? **TEXT TO TEXT** 





## EEGO





Why do we need government?

Read about the history of our government and the role of citizens.



Go Digital!



## THEY RUN

BY SUSAN E. GOODMAN \* ILLUSTRATED BY ELWOOD H. SMITH



## \* A SHORT HISTORY \* OF DEMOCRACY

## The Beginnings...

When was the first election? It's impossible to tell. For all we know, people voted in prehistoric times.

FLINT, FLINT, HE'S OUR MAN. IF HE CAN'T CAVE PAINT, NO ONE CAN.

ELECT GROG, KEEPER OF THE FLAME.

A VOTE FOR HOMO SAPIENS IS A VOTE FOR PROGRESS.

Early people may have had elections; we just can't be sure. They didn't have a written language, so they couldn't leave us records—let alone campaign posters or bumper stickers.

## **Beware of Greeks Bearing Gifts**

The ancient Greeks get credit for inventing democracy, probably because they had the best word for it. The "demo" part comes from *demos*, which means "the people." "Cracy" comes from *kratein*, meaning "to rule."

Rule by the people.

Starting in 510 B.C., the citizens of Athens, Greece, gathered in the Assembly and voted on important community issues. Each one had an equal voice in deciding what would happen. This was the purest democracy of all time—sort of. Only adult males, born in Athens with Athenian parents, could be citizens with full legal rights. That meant only one out of eight Athenians could vote on decisions that affected all their lives.

## There's No Place Like Rome

Around the same time and a little to the west, the city of Rome began working on its **version** of democracy. That is, when its citizens or armies weren't too busy conquering everyone else around them.

Roman democracy was different from the Greek version, in which ordinary citizens voted on major issues. Instead Romans voted to pick the people who would make decisions for them. They elected senators, who held their jobs for life.

They also elected leaders called consuls, who controlled the army and created laws. But a Roman citizen's best **privilege** was being the only one in the Empire who could wear a toga!

Eventually Roman leaders became a little too power hungry. Julius Caesar got himself declared Dictator for Life. Augustus took the title of Emperor. Then he went all out and declared himself a god.

So far our presidents have shown more self-control.



## I,800 Years Later—Here Comes American Democracy

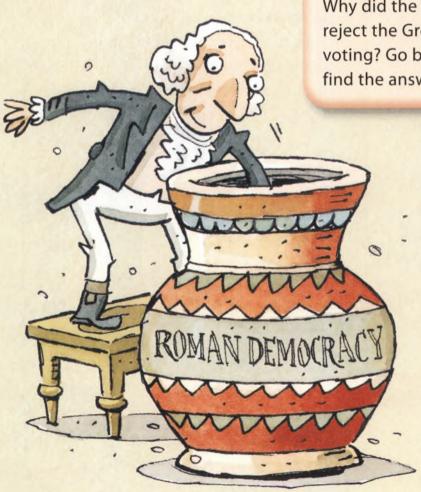
George Washington and the rest of our Founding Fathers borrowed bits and pieces from past democracies to create our own. They named our Senate after the Roman Senate. They adopted a British idea from the thirteenth century, saying that the government must respect a citizen's legal rights.

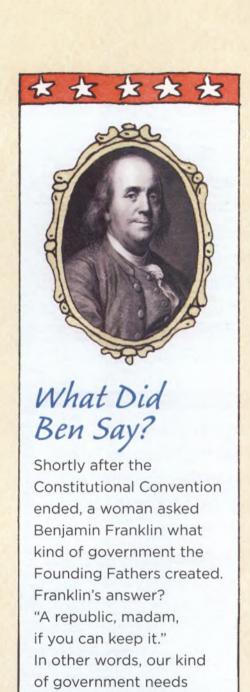
George and his crew wanted a government where people had some say in how to rule the country—but not too much. They didn't trust all their fellow Americans, especially those without much education. So they rejected the Greek method of having citizens vote directly on laws. Decisions would be made by people who "represented" the citizens instead, just like in the Roman Republic.

### STOP AND CHECK

## **Ask and Answer Questions**

Why did the Founding Fathers reject the Greek method of voting? Go back to the text to find the answer.





citizens who care enough

take part. In other, other

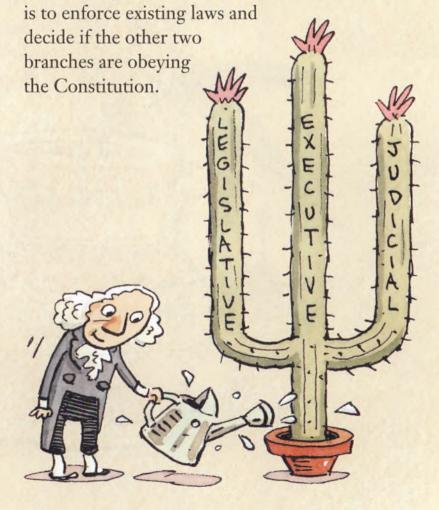
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to stay informed and

words... VOTE!

In 1787, the Founding Fathers locked themselves up for four months to write our Constitution. Coming up with this description of our new government wasn't easy. They all had different ideas and had to **compromise**. George Washington's face often wore its "Valley Forge look."

Here's what they came up with—a national government with three branches. Our Congress (the legislative branch) has two parts or houses: the Senate and the House of Representatives. Congress can make laws to raise taxes, improve citizens' lives, and defend the country. The president heads the executive branch. He (and someday soon, maybe she) carries out laws and is head of the military. He also appoints judges to the Supreme Court, part of our judicial branch. The court's job



## **Getting Better All the Time**

Is the Constitution a perfect plan? Nope, but the people who wrote it were smart enough to know that. They improved it right away by writing the Bill of Rights, the first ten **amendments** (additions) to the Constitution. We've been making it better ever since.

The Good News: The United States was the first modern democracy with an elected government protecting the freedom and rights of its citizens.

The Bad News: In the beginning, only white men who owned land could vote.

The Good News: In 1856, white men who didn't own land got that right.

The Bad News: Everyone else was still left out in the cold. Changing beliefs and values isn't easy; it takes lots of thought and struggle.

The Good News: African American and other nonwhite men began voting in 1870.

The Bad News: People's beliefs and values change too slowly. An African American's right to vote was often denied in the South and parts of the North until the civil rights movement of the 1960s.

The Good News: American women of all races got the vote in 1920.

The Bad News: Women in New Zealand, Australia, Finland, Norway, Canada, Estonia, England, Ireland, the Soviet Union, Austria, Czechoslovakia, Germany, Hungary, Armenia, Azerbaijan, Poland, Luxembourg, and Holland were able to vote before them. At least the United States beat Switzerland, where women couldn't vote until 1971!

The Good News: Native Americans began voting in 1924.

The Bad News: Seems like a long wait, given that they were here first. What's more, some states banned them from voting until the 1940s.

The Good News: In 1971, the voting age was reduced to eighteen years old.

The Bad News: You've still got a while before you can vote.

The Good News: You have other ways to make your opinion heard. Keep reading to find out what they are!

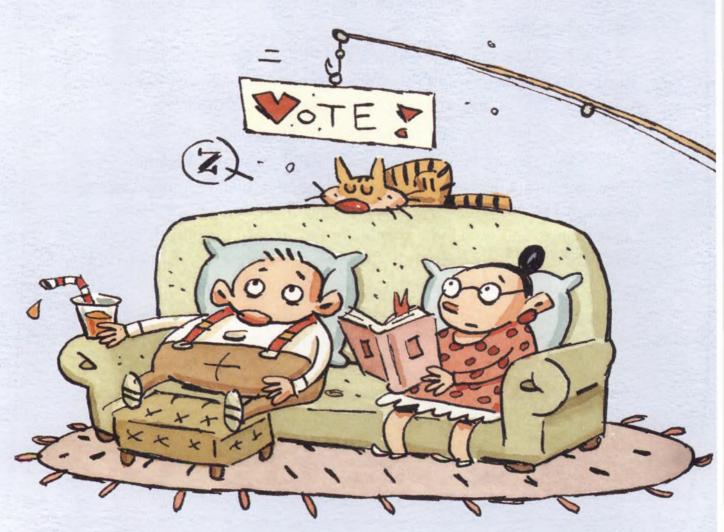
## \* UNCLE SAM WANTS YOU \*

## Rx for Voting

When people are involved with their communities, their knowledge of politics grows. Their interest and **commitment** does too. That's true for kids as well as grown-ups.

Okay, you aren't old enough to vote, not even close. But you can still have a voice in our democracy.

Four million kids already cast ballots on Election Day. They're part of a program called Kids Voting USA in schools in twenty-eight states and Washington DC. True, their votes aren't counted in official tallies. But they're announced in schools and on local TV stations.



This program has another advantage. Kids get so excited that 3 to 5 percent more of their parents end up voting too.

That's where you come in, even if Kids Voting USA isn't in your school. You can make sure your parents are registered to vote. And you can make sure they actually do it.

How? Oh, come on. How do you get your parents to do anything? Drive you somewhere? Buy a new game? Let you stay up late?

You bug 'em!

So bug them about voting. Plaster a countdown calendar on the front door. Put reminders on their voice mail. E-mail too. If they say they're too tired on the Big Day, try a bribe (it works when they want something from you!). Offer to do the dishes if they go—but only if

you're desperate!



### STOP AND CHECK

## **Ask and Answer Questions**

How does the Kids Voting USA program encourage people to vote? Go back to the text to find the answer.

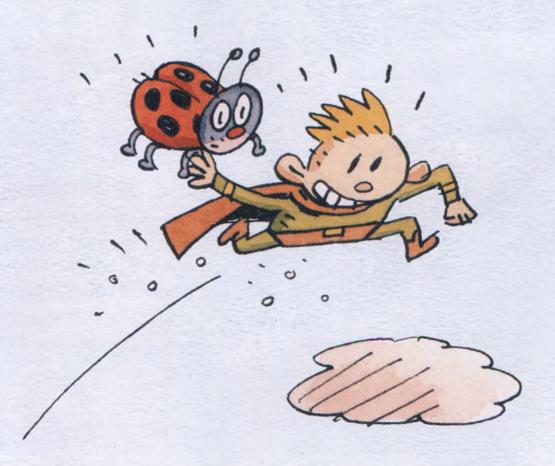
## Kids to the Rescue!

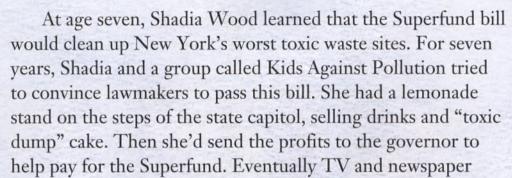
Bugging your parents is a good first step. Some kids are going even further. They are identifying issues and working on them. A recent report found that 55 percent of American kids volunteer. That's almost twice as many as adults.

Kids are becoming leaders. . .

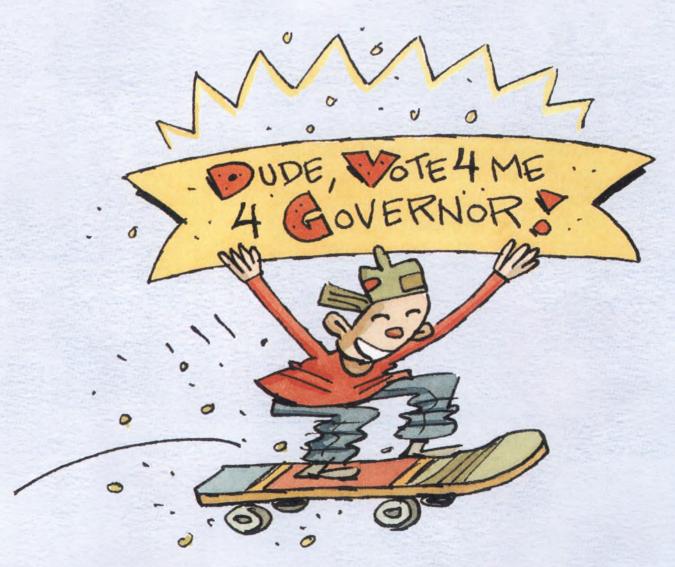
Talk about bugging, a group of second graders decided that Massachusetts needed an official state insect. When they learned that any state resident could give legislators ideas for new laws, they got busy. Maybe it was the ladybug costumes they wore while visiting the state capitol. Maybe it was their speech saying ladybugs could be found all over the state. Whatever the reason, the legislature approved their bill and the governor signed a law proclaiming the ladybug as Massachusetts's state insect.

Third and fourth graders did something similar for New Hampshire, which didn't have a state fruit. The hardest thing about that process was convincing legislators that the pumpkin IS a fruit.









Imagine getting \$135 to skip school and do good work? When Massachusetts's governor signed a bill to let sixteenand seventeen-year-olds work at the polls, Boston-based students began helping voters with computerized equipment on Election Day. It's a win-win-win situation: kids know computers better than many adult voters; they get involved with voting; they get money. They are also being trained for the job. Our country will need them soon. The average poll worker is currently seventy-two years old.

In Boise, Idaho, kids ages fifteen and up are on committees governing the city. Some towns, like Linesville, Pennsylvania, have had eighteen-year-old mayors. Mayor at eighteen seems pretty great. But in California, Ohio, Rhode Island, Vermont, Washington, and Wisconsin, an eighteen-year-old can be governor.

## Sending a Message

If you see a problem in your community or have an idea of how to make things better, get active. Give a government leader a piece of your mind (the best part, please!).

- Speak up at a town meeting.
- Invite your mayor or another official to speak to your class about an important issue. Be ready to ask good questions and give your opinions.
- Set up a class trip to visit him or her.
- Write a letter or e-mail that identifies a problem. Tell
  how the problem affects you and your community. Write
  about the changes you'd like to see. Send your letter to
  the appropriate official in your town or to your state
  representative and senator or to your representative and
  senator in Congress or even to the governor or president.
- Write a letter and get people who agree with you to sign it too. Make sure you write your names and addresses clearly.
- Make a survey about the problem, write it up, and send it to the right official.

### STOP AND CHECK

**Summarize** How can kids make their voices heard about community issues?

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## ABOUT THE AUTHOR AND ILLUSTRATOR



**Susan E. Goodman** loved reading as a kid, but reading did not make her a good writer. That happened when she got a D- on a school paper. Goodman's teacher allowed her to rewrite it. That taught Goodman the importance of reviewing and revising anything she writes. And Susan Goodman has written a lot—more than 700 articles and several books!



**Elwood Smith** grew up with a love of cartoon characters and comic books. When he began drawing humorous illustrations as an adult, he remembered the comics he had loved as a child and tried to draw in that style. Smith also plays guitar in a rock band with other artists.



## VOTE .

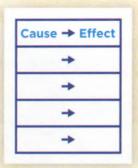
## **Author's Purpose**

Why did the author explain the types of government used long ago before she explained the way that American democracy works?

## RESPOND TO READING

## **Summarize**

Identify the key details and summarize See How They Run. Information from your Cause and Effect Chart may help you.



## **Text Evidence**

- Why is See How They Run considered narrative nonfiction?
   Point out elements in the selection that help you identify the genre. GENRE
- 2. What caused Shadia Wood to speak up to government lawmakers? Describe what she did and the effect that her methods had. CAUSE AND EFFECT
- 3. Use context clues to figure out the meaning of the word dictator on page 272. Tell how knowing the Latin root "dict" helps you. LATIN ROOTS
- Write about why our nation's government has three branches. WRITE ABOUT READING



## **Make Connections**

How would our lives be different if we did not have a government? **ESSENTIAL QUESTION** 

How does the government of the United States compare to other types of government around the world? Why do you think many people want to be part of a democracy?

TEXT TO WORLD



**Genre** • Expository Text

## **Compare Texts**

Read about the Founding Fathers' plan for our government.

CONGRESS. Just a see

commons Pertaration - week on States of Memories

very Fourth of July, Americans celebrate the birthday of the United States. Fireworks and parades remind us that the thirteen colonies declared independence from Great Britain on July 4, 1776. That birthday took place in Philadelphia, Pennsylvania. There, the Second Continental Congress approved the Declaration of Independence. This document formed a new nation, the United States of America. The Declaration is almost like our country's original birthday card.

## **Our Founding Fathers**

Five men, including John Adams, Thomas Jefferson, and Benjamin Franklin, wrote the Declaration of Independence. Jefferson wrote the first draft. His famous words sum up a basic American belief—"all men are created equal."

The men who signed the Declaration are called the Founding Fathers of our country. Signing the Declaration put the founders' lives in danger. They knew that their signatures made them traitors to Great Britain. They also knew that, if the colonies won the war, their names would go down in history.

Led by General George Washington, the colonists fought passionately for their freedom. After a long, bloody war, the British surrendered in 1781, and a peace treaty was signed in 1783. Our new nation was still a work in progress, however. Americans disagreed about how much power a federal, or central, government should have. Given that they had just won freedom from a powerful British king, Americans did not want their government to have too much power.

## The Constitutional Convention

By 1787, the states were like separate countries. Each state printed its own money and made its own trade laws. The national government was weak and in debt from the war. In May 1787 each state sent delegates, people who represent others, to Philadelphia to attend a meeting called the Constitutional Convention. The delegates were to create a new plan for our government. George Washington was chosen as the president of the convention.



### THREE BRANCHES OF GOVERNMENT

The Legislative Branch creates laws.

### Includes:

- Congress
  - House of Representatives
  - Senate

# The Executive Branch carries out laws.

### Includes:

- President
- Vice President
- Cabinet Members

# The Judicial Branch settles disputes about laws.

### Includes:

- Supreme Court
- Lower Federal Courts

### The Three Branches

The Legislative Branch, or Congress, is made up of the Senate and House of Representatives. Congress passes laws. Small states liked the Senate because each state, large or small, got two senators. In the House, a state's population determines the number of representatives.

The president heads the Executive Branch. The president can sign, veto, and enforce laws. The president also commands the nation's military.

The Judicial Branch is the third branch. The highest court is called the Supreme Court. District, state, and federal courts determine whether a law follows the Constitution.

The Constitution was officially approved in September 1787, but it did not become the law of the nation right away. Why? It had to be ratified, or approved, by nine of the thirteen states.

Some states held out. They felt the Constitution did not give enough power to the people. They wanted to add amendments, or changes, that guaranteed important personal rights such as freedom of speech or religion. James Madison jumped in again. He wrote the Bill of Rights, the first ten amendments to the Constitution. These were added to the Constitution in 1791. Finally, our nation had a plan of government that was approved!

### All the People

Our Constitution begins with the words *We the People*. Back in 1791, however, the Constitution gave certain rights, such as voting, only to some people. That has changed over time. Today, our Constitution grants all citizens over the age of 18 the right to vote. Politicians continually revisit this founding document to ensure that all people are treated equally in our democracy.

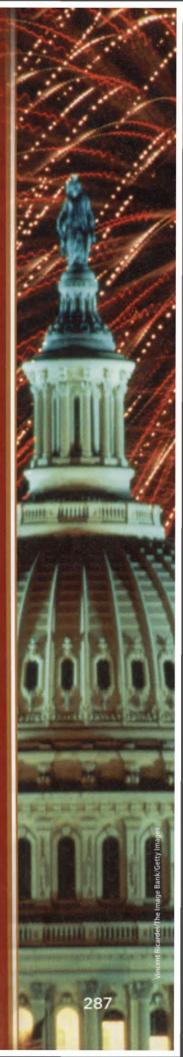
### **Make Connections**

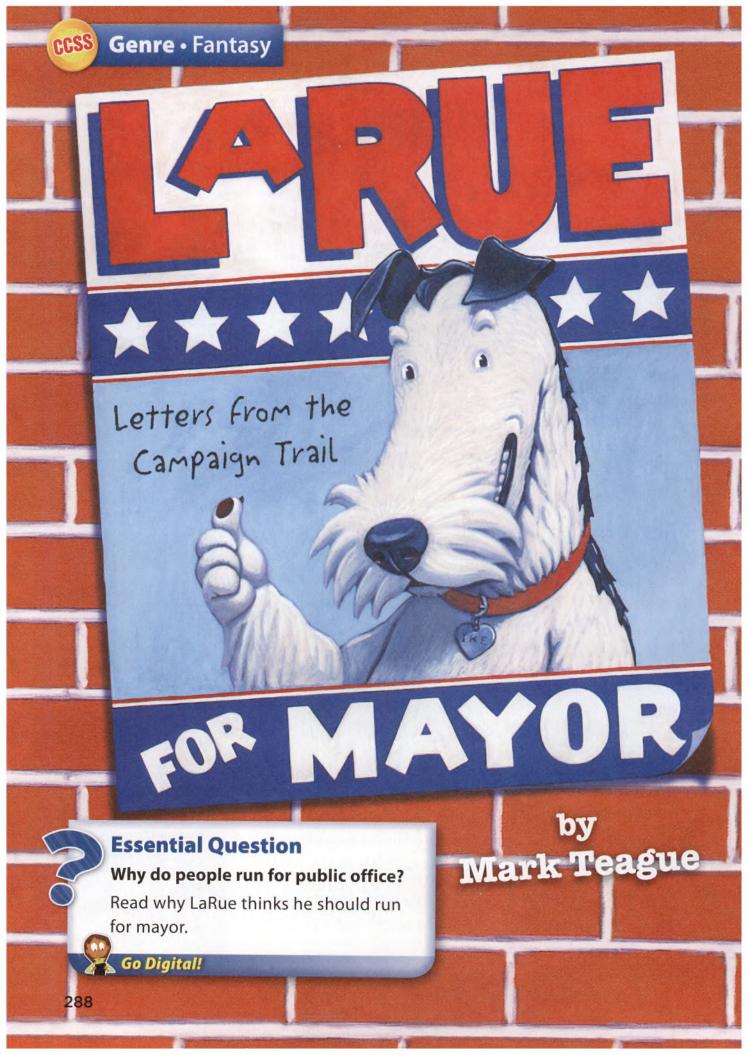


Why did delegates from the states meet to write a Constitution in 1787? **ESSENTIAL QUESTION** 

Why is it important to be an active participant in our democracy? Use details from the selections to explain.

TEXT TO TEXT





September 30

# **Bugwort Launches Campaign for Mayor**

Former Pumpkinville police chief Hugo Bugwort announced yesterday that he will run for mayor of Snort City. Calling himself the "Law and Order" candidate, Bugwort, who spoke to a cheering crowd in Gruber Park, is widely considered a shoo-in for the job. "Snort City is a disgrace!" he said, to polite applause. "We need to be more like Pumpkinville. That means no more sloppiness, no more silliness, and no more foolish behavior." The speech was interrupted when several dogs in the back of the

crowd overturned a hot-dog cart. Injured in the fracas was Gertrude LaRue of Second Avenue. The dogs were not identified.



**Dogs Disrupt Rally** 

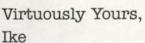




October 2

Dear Mrs. LaRue,

Thank you for your concern. Yes, this will be a difficult time for me, stuck here all alone while you recuperate in your pleasant hospital bed. But please do not worry. I have become friendly with some of the dogs I met the other day in the park. We have decided to form a social club, which will perform various services to the community. Spending time with Fifi, Buck, and Chewy should help ease the pain of your absence. Plus, think of all the good deeds we will be doing!





Make Predictions lke says his social club will serve the community. Do you predict the club will really do good deeds?



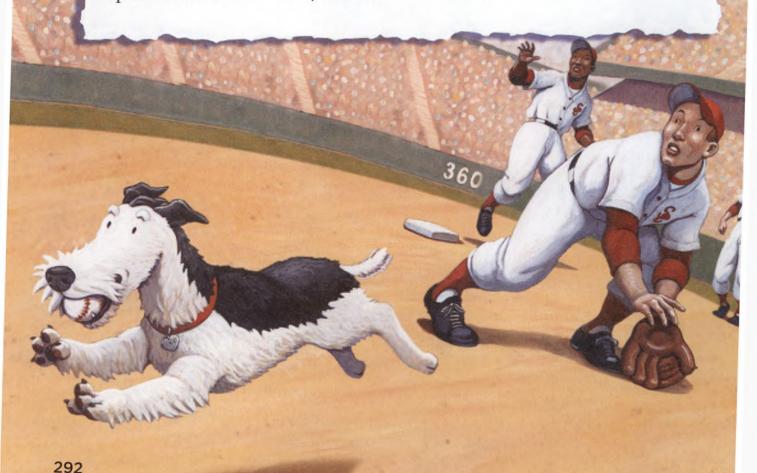
October 6

# Wild Dogs Rampage!

## **Game Disrupted**

Unruly dogs plagued Snort City again yesterday, as one of the animals broke up a double play and ran away with the baseball during a Snort City Rabbits game at Morley Field. The episode capped a week of problems that began on Tuesday when a pack of the rambunctious creatures broke up the annual Fishin' Derby on Blat

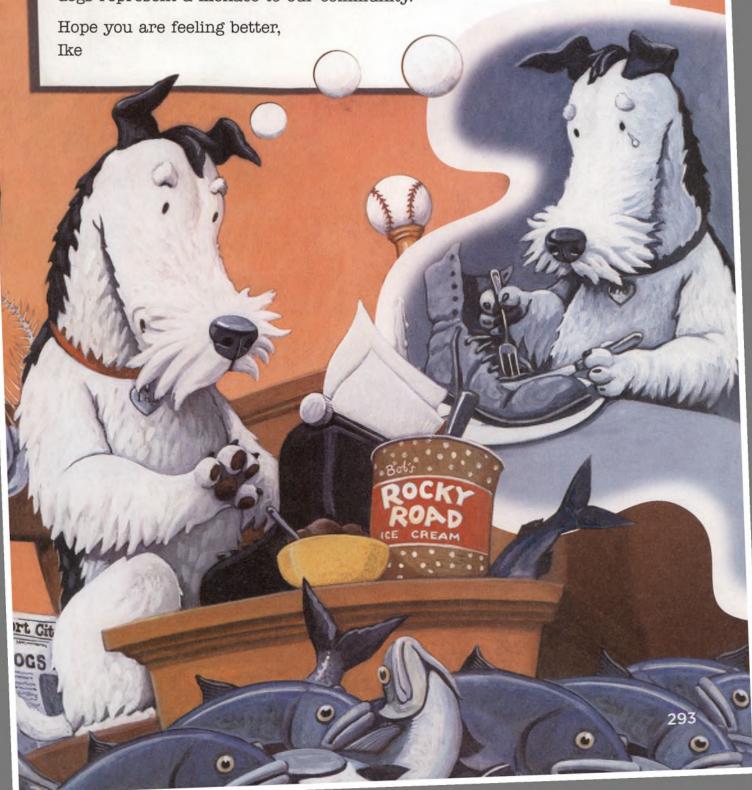
Lake. Apparently the dogs first rolled in, then ate, the catch. The following day a group of dogs snuck into a "Mr. Ding-a-Ling" truck outside Gruber Park and made off with two gallons of rocky road ice cream. None of the dogs have been apprehended, though ice-cream vendor Eugene Phelps describes the leader as a "scruffy black-and-white fellow."

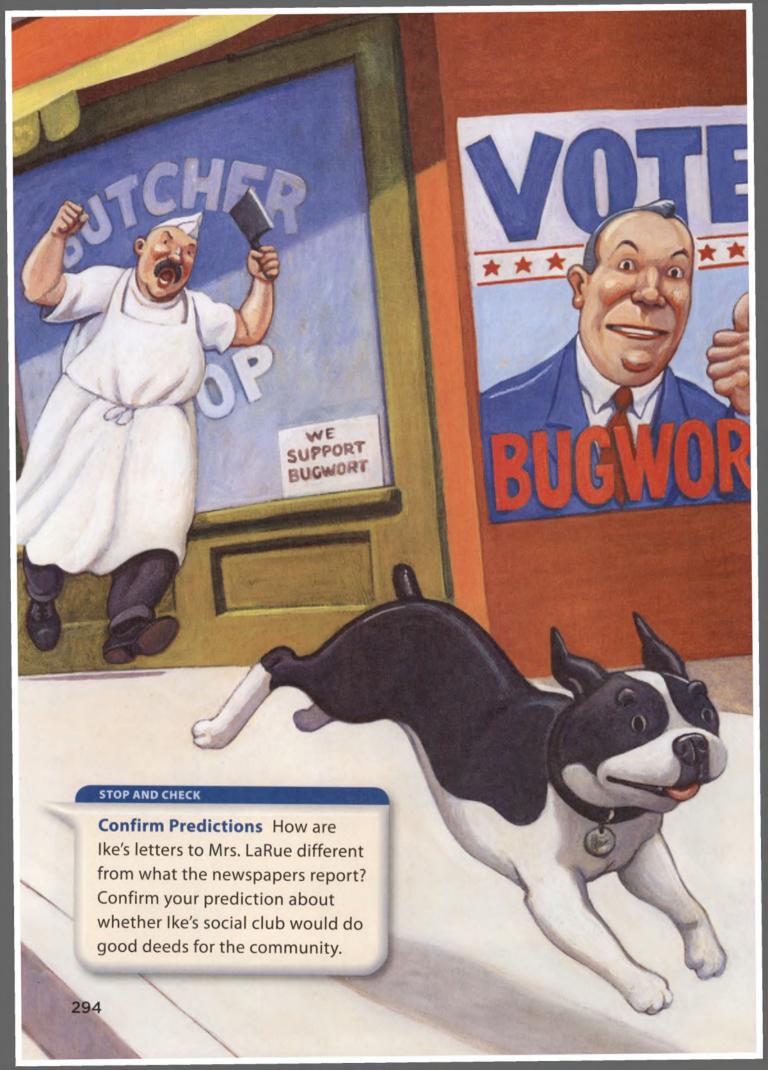


Dear Mrs. LaRue,

Please do not worry about me. I will not starve or die of loneliness, probably.

Yes, I read the newspaper accounts regarding "dog problems." Frankly, I find them ridiculous. Can this cheerful and spirited behavior really be a problem? Where is the harm? And yet, with such lurid reporting, some weak-minded individuals might come to believe that dogs represent a menace to our community.





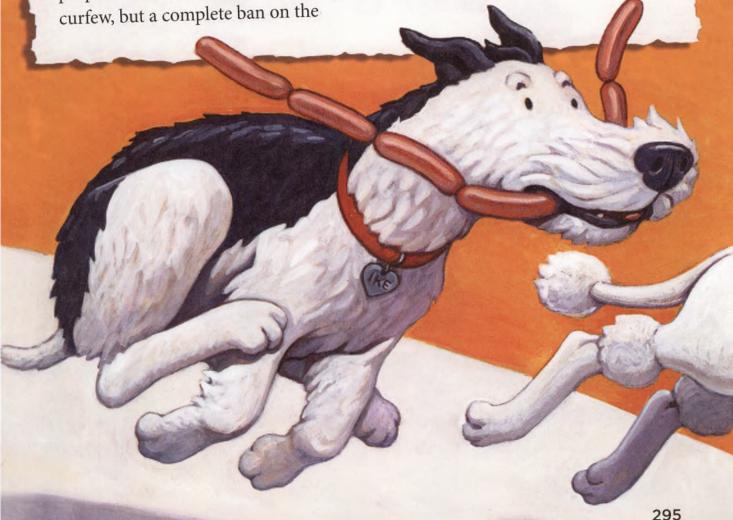
October 8

# **Bugwort Calls for Canine Crackdown**

Calling dogs "a menace to our community," mayoral candidate Hugo Bugwort yesterday announced his plans to crack down on the beasts. "We can no longer tolerate this sort of behavior," he said, citing recent dog-related problems. Mr. Bugwort proposes not only a leash law and a curfew, but a complete ban on the

animals in most public places. "This town is literally going to the dogs," said Bugwort. "I **intend** to stop it."

In related news, a dog reportedly snuck into Branmeier's Butcher Shop on Second Avenue and made off with a string of beef sausages.



Dear Mrs. LaRue,

I must say I have become alarmed by the ravings of this man Bugwort. Imagine if he actually were elected to our city's highest office! The idea is unthinkable. I must figure out some way to stop this impending disaster! Your Worried Dog,

Ike 296

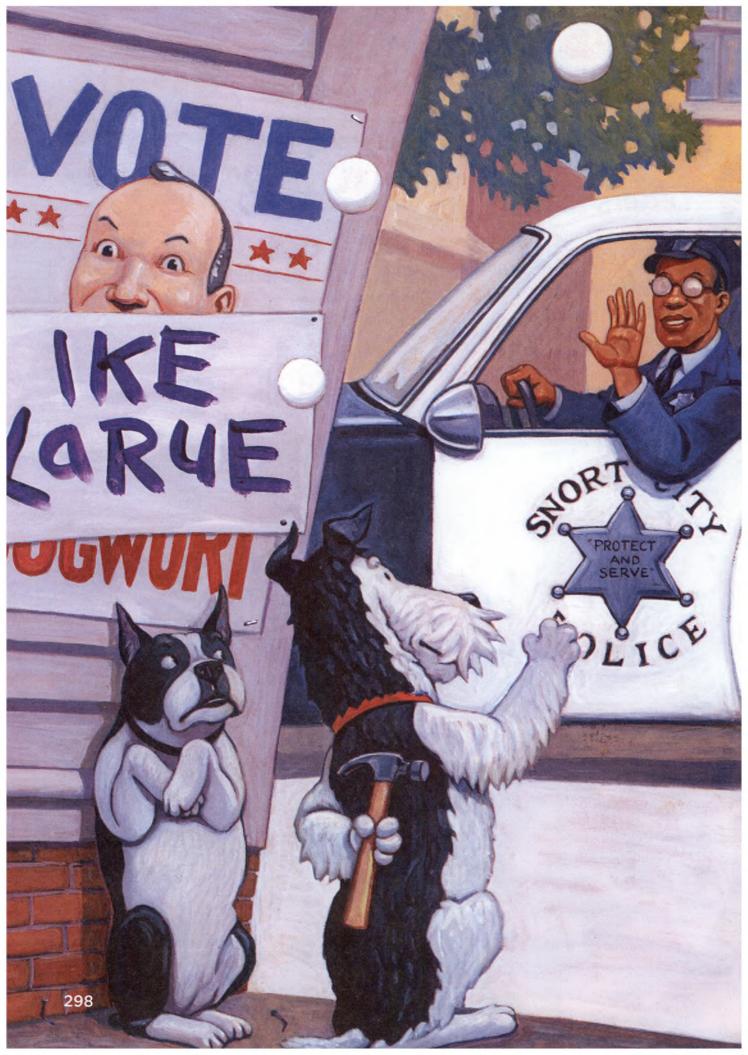
# October 10

# **Letters to the Editor:**

As a longtime resident, I must decry the wave of anti-dog hysteria sweeping over our city. Can we so quickly forget the loyalty of Man's Best Friend? Who accompanies our firefighters and police on their perilous rounds? Who rescues the weary traveler stuck high in the Alps? Who serves the blind (and the deaf, too, most likely)? Dogs, that's who! Signed,

A Concerned Citizen







How I envy you the safety of your hospital bed! Here in the outside world, things have become perilous indeed—at least for dogs! The awful Bugwort continues his scurrilous attacks. Yesterday he referred to dogs as "gangs of hooligans." He must be stopped. Therefore I have decided to "throw my hat into the ring." This afternoon I will announce my candidacy. Doubtless the public response will be **overwhelming**.

Your Next Mayor,

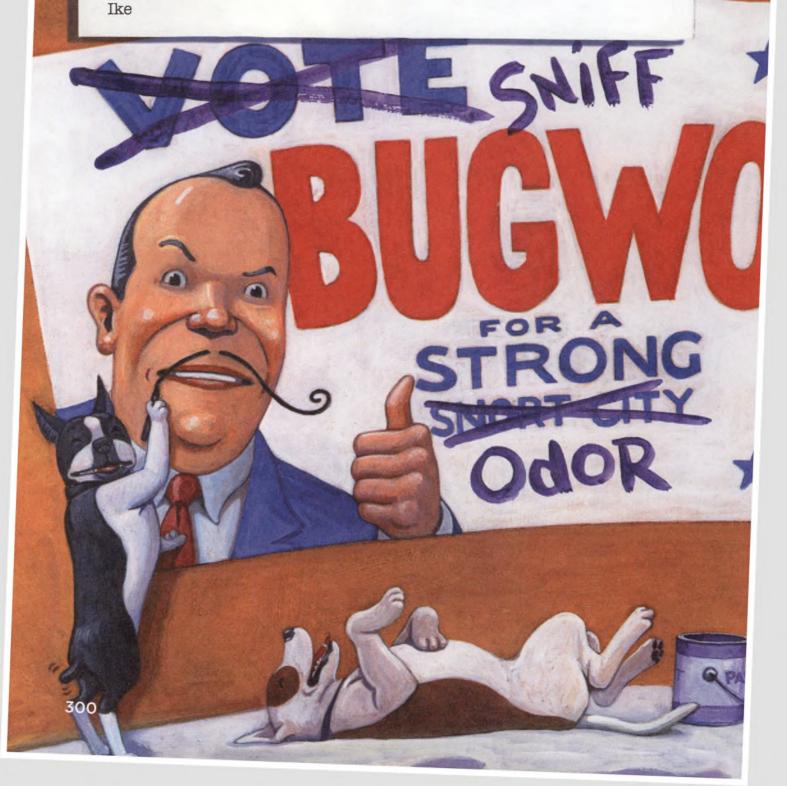
Ike



Dear Mrs. LaRue,

My first day on the campaign trail was fabulous! Everywhere huge crowds turned out to cheer my message of dog-friendliness. My chums from the social club have agreed to help. Of course we will do our best to keep this **campaign** positive, though I can't speak for my **opponent**, who appears to be vicious and unstable, if not insane.

Honestly Yours,





October 13

Dear Mrs. LaRue,

In my appearances I have been pointing out that if dogs are banned from places like Gruber Park, cats will run wild. Not a pleasant thought! The campaign continues to gather steam. I think we have Bugwort on the ropes.

Politically Yours,

Ike

P.S. I hope you don't mind, but I have been using the apartment as campaign headquarters.

October 14

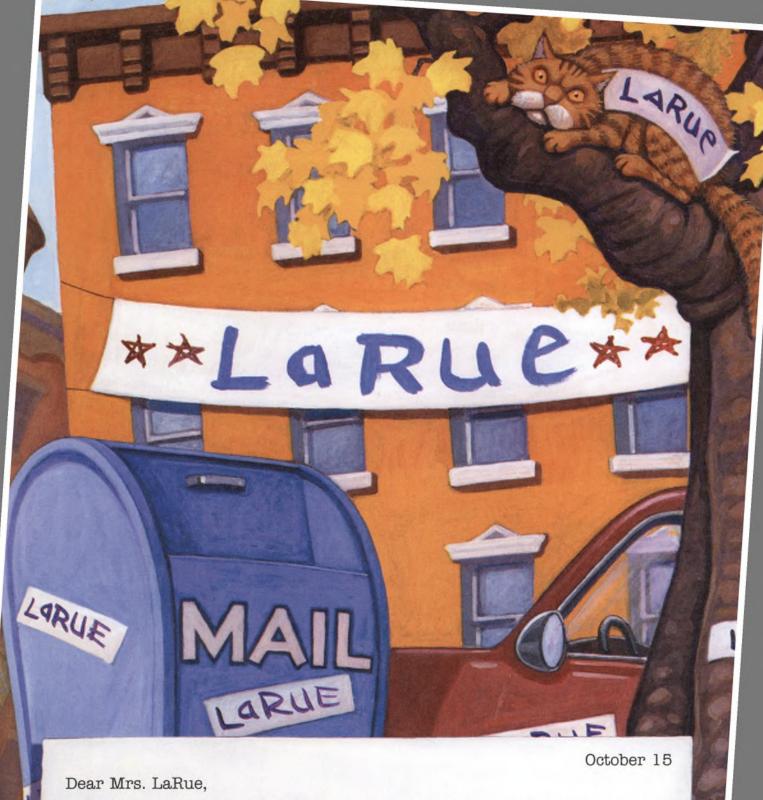
# **Bugwort Challenged by Mystery Candidate!**

A mysterious new candidate has emerged to challenge Hugo Bugwort in his run for mayor. Supporters of Ike LaRue describe him as "dog-friendly." Opponents point out that he is, in fact, a dog. Either way, the furry LaRue has begun to wage a fierce campaign against Bugwort, who promises to virtually ban all dogs from Snort City. Surprisingly,

LaRue's message has begun to catch on. "We didn't anticipate this," admits Bugwort campaign manager, Walt Smiley, referring to the dogs. "It turns out some folks are really fond of the little devils."

"I'm not worried," said Bugwort.
"Tomorrow is my big rally in
Gruber Park. I'll deal with these
dog-lovers then."





My supporters and I have decided to confront Chief Bugwort at today's rally. We will be out in force, and though we will conduct ourselves in a dignified manner, I am sure that the results will be interesting.

111

Hope you are well,

Ike

P.S. Nothing will distract me from this important cause.



October 16

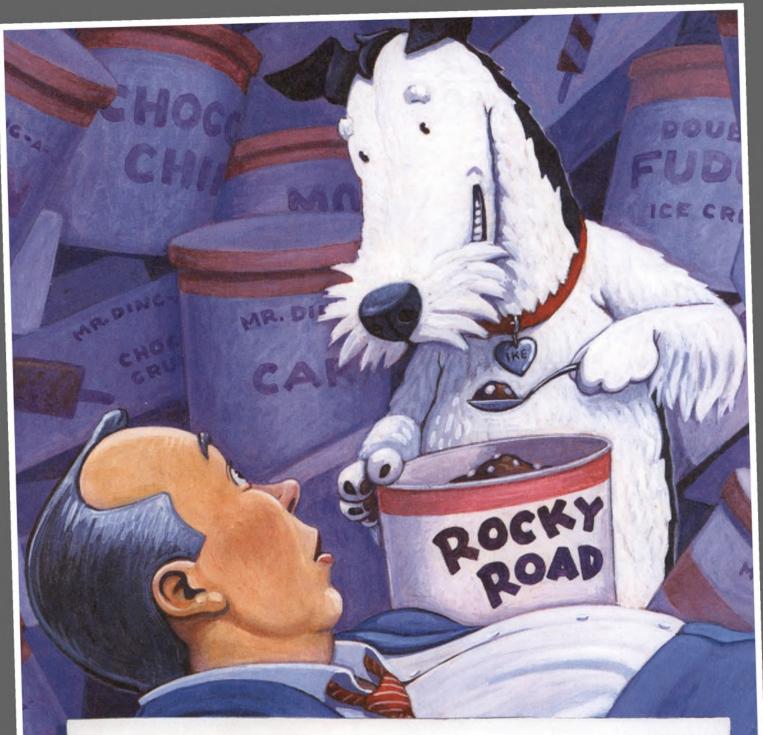
# LaRue Rescues Bugwort!

## **Dog Called Hero**

Hugo Bugwort was rushed to Memorial Hospital yesterday after collapsing onstage during a rally in Gruber Park. Apparently he grew dizzy while trying to shout down hecklers. Among his rescuers was his opponent, local dog Ike LaRue. "When the Chief collapsed we rushed him to the nearest vehicle, a Mr. Ding-a-Ling truck," explained campaign manager, Walt Smiley. "For some reason the dog was already inside. But give him credit—he really did his best to help."

"LaRue saved me," said Bugwort. "All the way to the hospital he fed me cool, delicious rocky road ice cream. By the time I got here I was feeling much better." The rescue puts a new twist on an already unusual campaign. "I have completely changed my mind about dogs," said Bugwort. "In fact, I would be honored if Ike would serve with me as Assistant Mayor, to make sure that the interests of dogs are represented in a Bugwort administration." LaRue, who departed in the Mr. Ding-a-Ling truck, could not be reached for comment.

# Summarize How does Ike rescue Hugo Bugwort? MR. DING. A. LING. CRUNC. C



October 16

Dear Mrs. LaRue,

It turns out that Chief Bugwort is not such a bad fellow after all. In fact, he's swell! Anyway, politics are not for me. I would rather make friends than engage in this constant bickering. And since all I ever wanted was to make this a great city for EVERYONE, I have decided to wrap up my campaign and accept the Chief's offer to serve as Assistant Mayor.

I'm so glad that you are feeling better and will be able to attend my swearing-in ceremony.

Your Loyal Dog, Ike

November 3

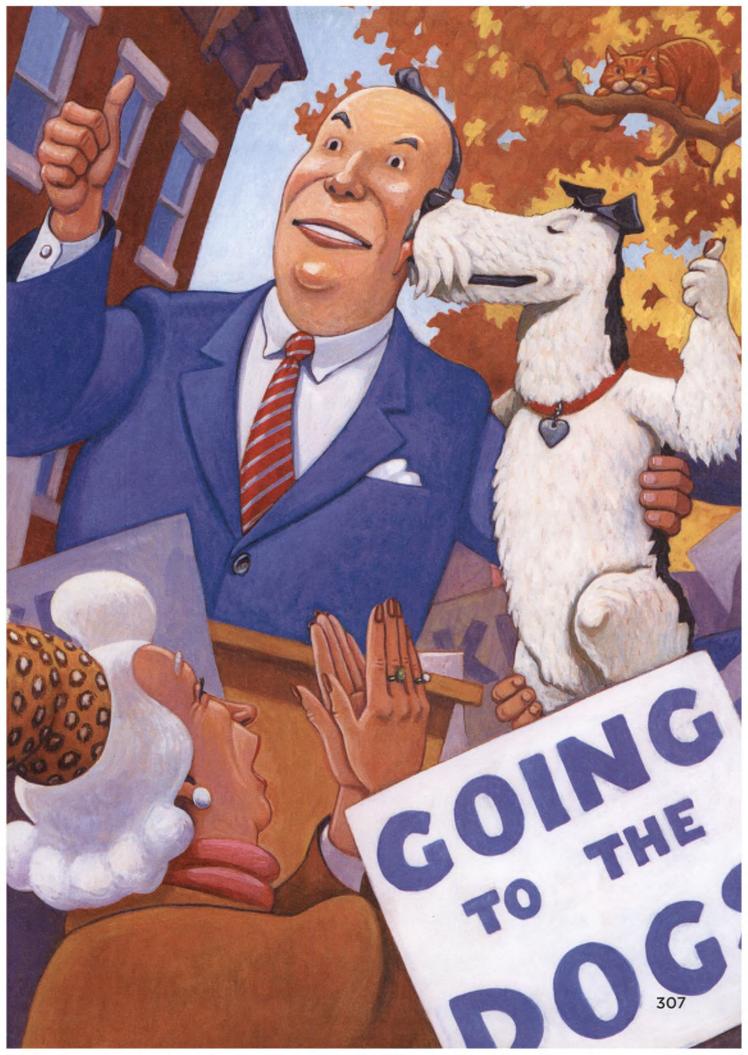
# Bugwort Sworn In! LaRue Joins Former Adversary

Promising to have the most dogfriendly administration ever, new mayor Hugo Bugwort was sworn in yesterday during a ceremony in Gruber Park. At his side was Assistant Mayor Ike LaRue, whom many credit with his success.

"This is a great day for everyone in Snort City!" proclaimed Bugwort, to loud cheers from the audience. The speech was interrupted when several dogs in the back of the crowd overturned a hotdog cart. Bugwort promised to look into the matter.

"It certainly is worrisome," he said. "Who knew those carts were so unstable?"

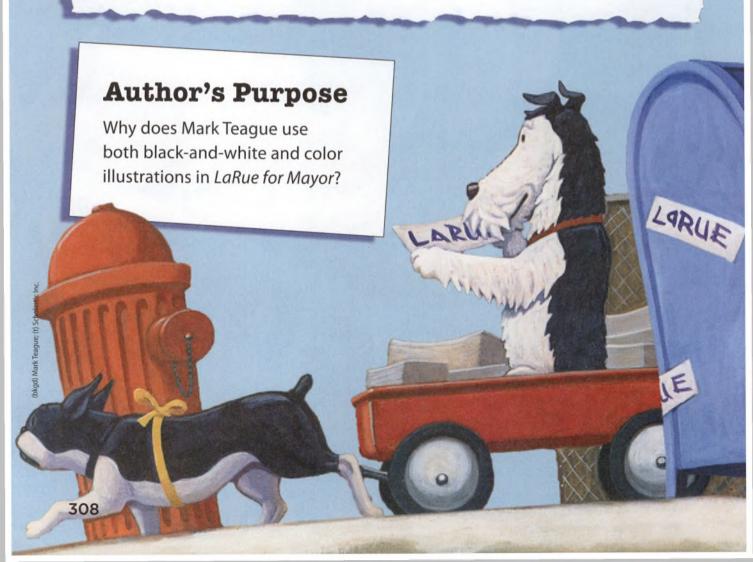




# About Mark Teague



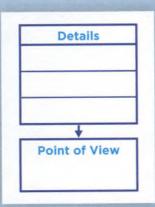
Mark Teague is an author and illustrator of many children's books. He often writes stories about activities that some kids try to avoid—things like getting a haircut, doing homework, and cleaning one's room. Mark adds his own quirky sense of humor to his stories. Many of the ideas for his books come from things he did as a child. The character Ike LaRue was inspired by two dogs he and his brother had. Mark uses these childhood inspirations to create new stories in upstate New York. His daughter loves to watch him paint the illustrations for his books.



# Respond to Reading

### Summarize

Summarize LaRue for Mayor. Include the most important details from the story. Information from your Point of View Chart may help you.



### **Text Evidence**

- 1. How do you know that LaRue for Mayor is a fantasy and could not happen in real life? GENRE
- Describe the two points of view from which the story is told. Give examples from the text. POINT OF VIEW
- 3. The newspaper article on page 295 says that Bugwort "announced his plans to crack down" on unruly dogs. What is the meaning of the idiom "crack down"? Explain how you know. IDIOMS
- 4. Write about how the different points of view make lke's story more interesting. WRITE ABOUT READING



2

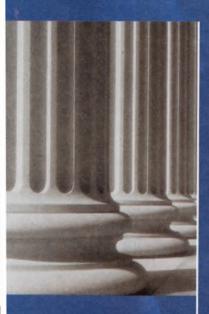
Why does lke run for mayor? **ESSENTIAL QUESTION** 

Bugwort and Ike have very different qualities, yet the people of Snort City like them both as candidates. What qualities are most important in someone running for public office? TEXT TO WORLD



## **Compare Texts**

Read about the duties and accomplishments of state and local officials.



# Bringing Governme Home



**Understanding State and Local Government** 

What do you think of when you picture the United States government? Do you see the White House or perhaps the President? These images are accurate yet incomplete. There are also many U.S. leaders at the state and local levels—in the counties, cities, and neighborhoods where we live.

National, state, and local governments share the same basic structure. The executive, legislative, and judicial branches make up the three branches of government. Each branch of government has specific duties and powers. These powers differ in national and state governments.



# **Just a Few National Powers Versus State Powers**

### National Leaders Can ...

- · Print money
- · Declare war
- Enforce the U.S. Constitution

### State Leaders Can ...

- Issue licenses
- · Provide for public health and safety
- Amend state constitutions



## The Executive Branch

The President is the leader of the national executive branch. Similarly, a **governor** heads up each state executive branch. The governor makes important decisions about the state. Each state has its own structure and set of officials who are below the governor.

At the local level, a city mayor might head up the executive branch. One example of a successful mayor is Mick Cornett of Oklahoma City. Every day, mayors such as Cornett oversee city departments, such as police, schools, and transportation. They also work with others to try to improve their city. Mayor Cornett launched a campaign against obesity in Oklahoma City. Cornett added sidewalks, bike paths, and walking trails. He also created a 70-acre park to promote walking and exercise. Thanks to Cornett's efforts, the people of Oklahoma City have lost over 600,000 pounds.



# The Legislative Branch

State legislatures also have strong leaders called senators and representatives. These members try to improve their state by passing new laws. Senator Anthony C. Hill worked hard for the state of Florida. He helped to create and pass new laws. As a legislator, Hill worked to pass important civil rights legislation. He also improved African American voter turnout in Florida elections. In addition, Hill helped to

increase the state's minimum wage and reduce class sizes in schools.

Local legislators can create similar results in their counties, cities, and towns. They may pass laws that relate to parks, public transportation, and police departments, to name a few.



# The Judicial Branch

The judicial branch makes sure that all these laws are understood. It also ensures that the other two branches adhere to the U.S. Constitution. At the state level, this branch usually includes a Supreme Court and lower-level courts.



DID YOU KNOW that in addition to the U.S. Constitution, each state has its own constitution and set of laws to follow? The purpose of a state constitution is to outline the structure of the state government.

Many state constitutions are longer than the national one! That is because leaders want to make sure their state is protected. For example, Florida's constitution includes laws that intend to protect the land and

animals of the Everglades, an area of natural wetlands in the southern part of the state.

The earliest state constitutions were created hundreds of years ago. Today, state leaders amend, or change, state constitutions to address modern concerns from citizens. South Carolina leaders recently amended their state constitution to include hunting and fishing as a constitutional right for citizens.

County, city, and town courts exist at the local level. Judges may be chosen by public officials. They may also be elected. State and local judges represent a wide range of backgrounds.

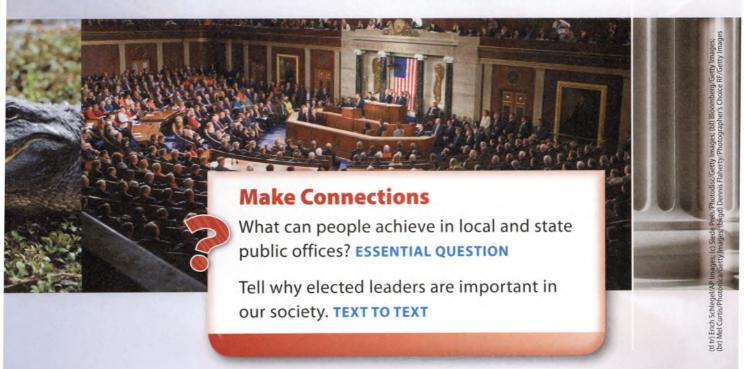
Justice Eva Guzman is a good example. A judge for the Supreme Court of Texas, Guzman was the first Hispanic woman to be elected to a state office in Texas. State Supreme Court justices decide if judges in lower courts have made the right decisions based on the state constitution. In addition, Justice Guzman has headed up legal education programs in Texas. She does this so that others can learn about the law.



### Justice Eva Guzman

## **Checks and Balances**

The three branches of government help to create balanced national, state, and local governments. Our forefathers created this system to make sure one branch did not become more powerful than the others. Public officials at each level of government are responsible for the laws we vote on and follow. So the next time you think about who makes up our government, keep your local leaders in mind!



**Genre** • Historical Fiction

# THE MONION OVER STAR

BY Dianna Hutts Aston
ILLUSTRATED BY Jerry Pinkney



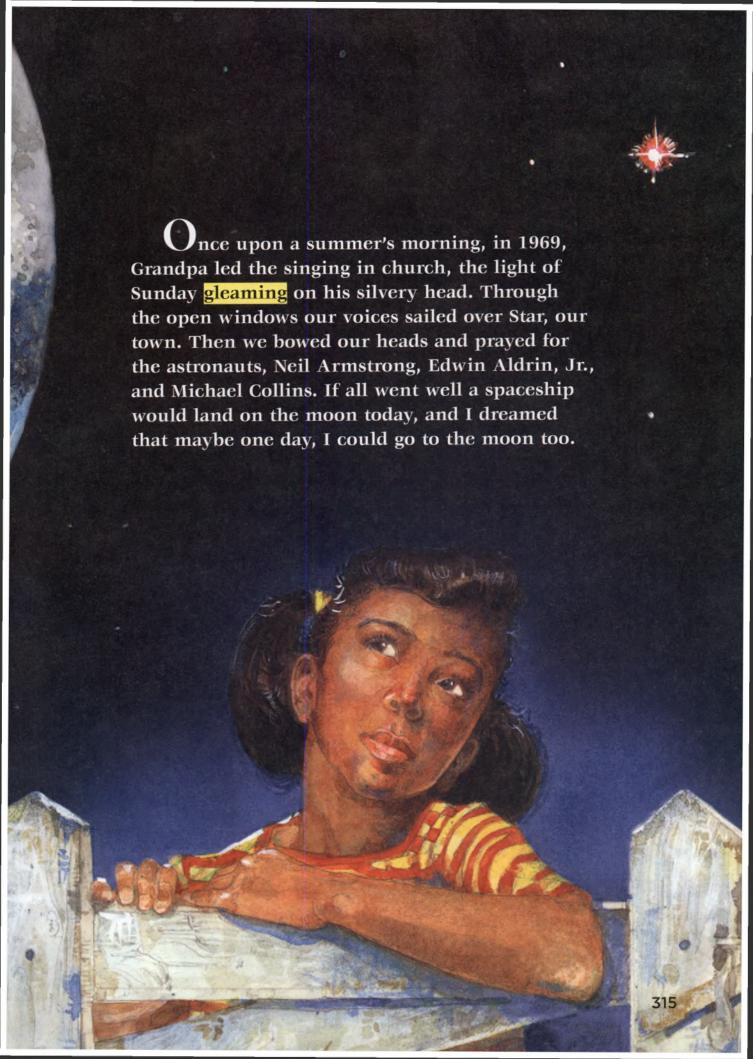
### **Essential Question**

How does technology affect your life?

Read to find out how the moon landing affected Mae and her family.



Go Digital!



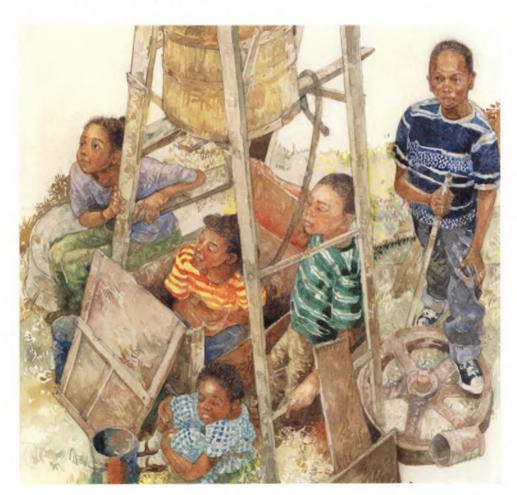


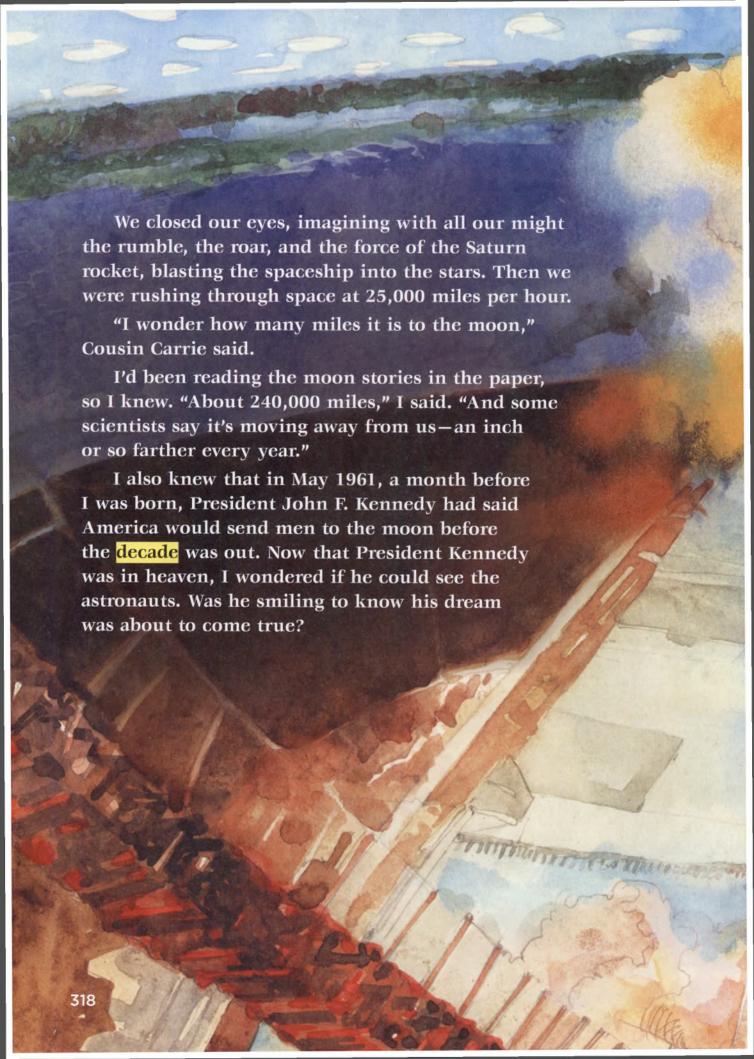
My gramps thought the space program was a waste of money, but I knew he was praying for them too. I thought about the astronauts' kids and wondered if they were scared—scared but proud. I know I'd be. I slipped my hand into my dad's and whispered so only I could hear, "Please bless the astronauts' children too."

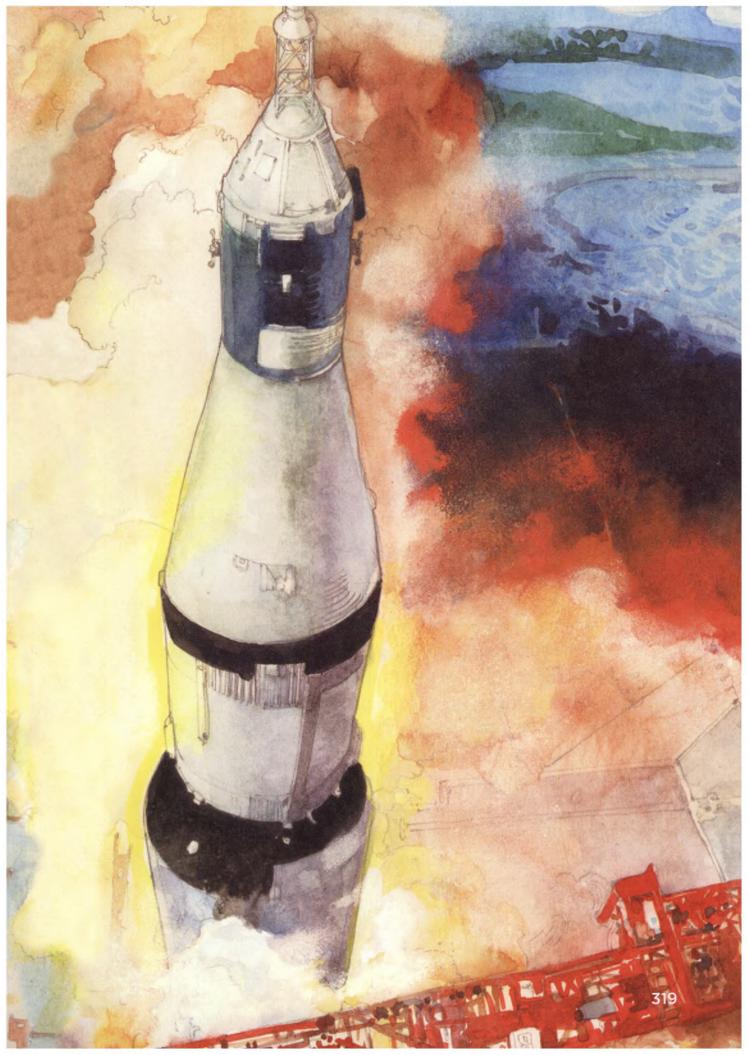
#### STOP AND CHECK

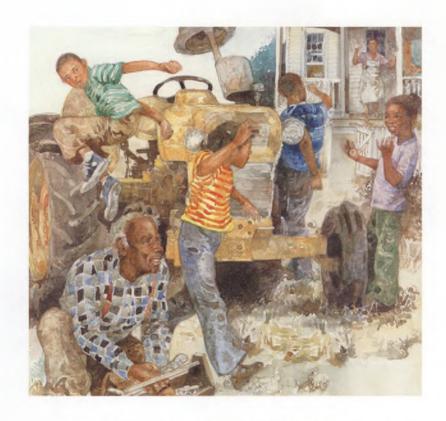
Make Predictions What do you think Gramps's reaction to the moon landing will be? Use text clues to make a prediction. Once upon a summer's noon, my cousins and I **scouted** Gran's watermelon patch for the biggest one. It took three of us to carry it to a tub of ice—three and a half, counting my littlest cousin, Lacey. We decorated the picnic table with pails of wildflowers. Then, our chores done, we built our own spaceship from scraps we found in the barn.

"T minus 15 seconds ... 12, 11, 10, 9 ..." As the oldest grandchild, I got to be launch controller and Commander Armstrong. "Ignition sequence start ... 6, 5, 4, 3, 2, 1, 0. Liftoff, we have liftoff!"









That afternoon, we were helping Gramps with the tractor when Gran hollered, "Come quick! They're landing!"

Gramps kept right on **tinkering** with the engine. The rest of us ran pell-mell for the house and **squirmed** around the television screen as it glowed with equal parts of moon and the spaceship called *Eagle*.

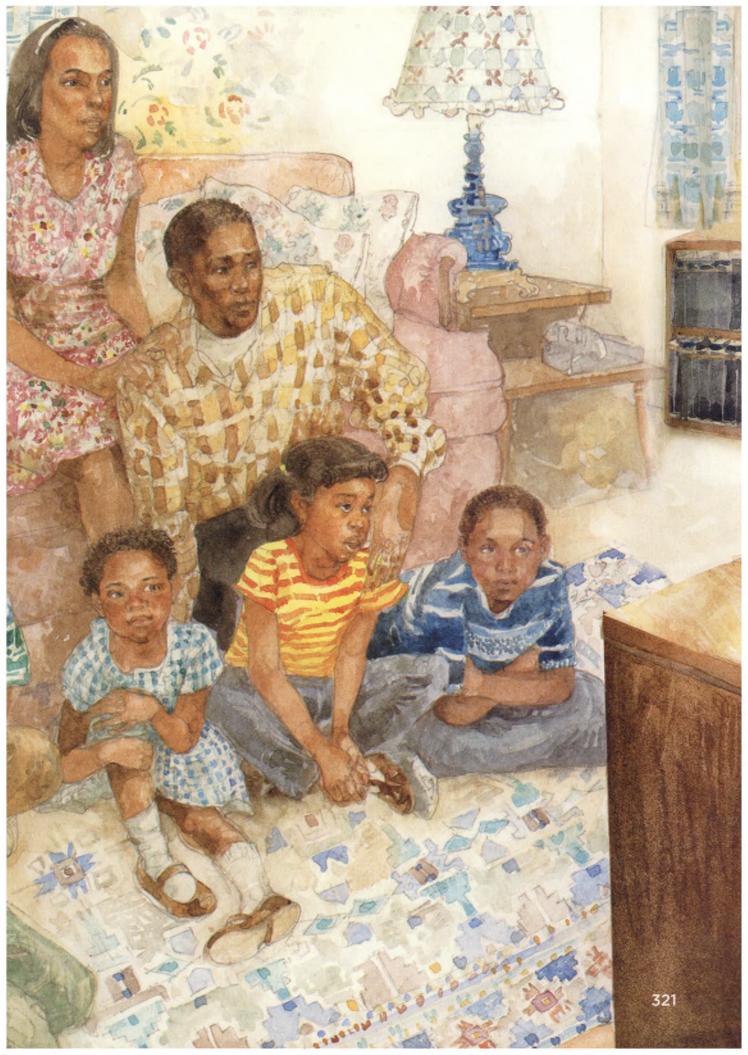
We heard the voice of Commander Armstrong **directing** the landing. "Forward ... forward," he said.

Then the newsman we all knew, Walter Cronkite, exclaimed, "Man on the moon!"

For a split second we were silent—the whole universe must have been—as we waited ... waited ... waited to hear the voice of an astronaut 240,000 miles away.

And then: "Houston, Tranquility Base here," Commander Armstrong said. "The *Eagle* has landed."

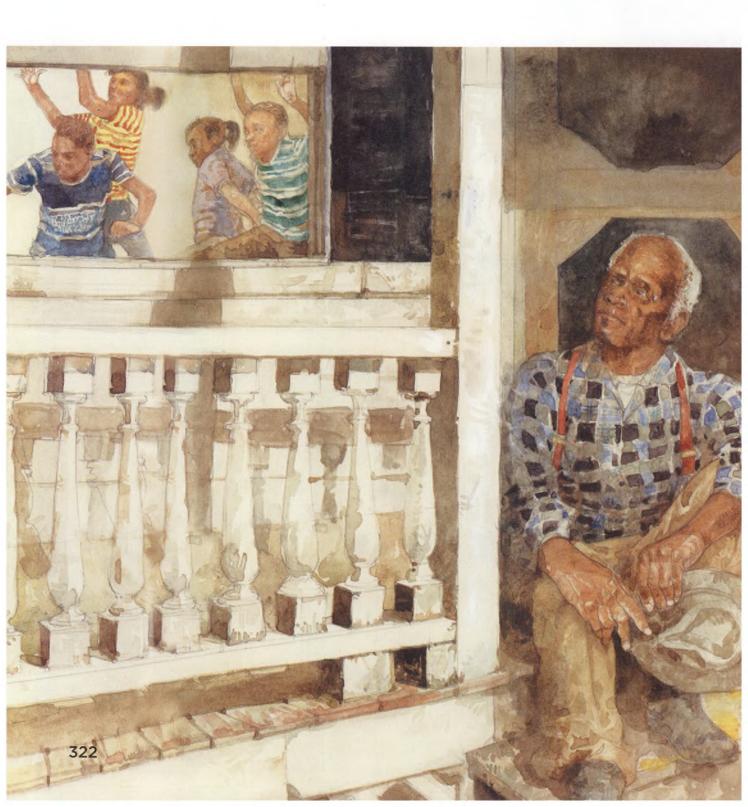


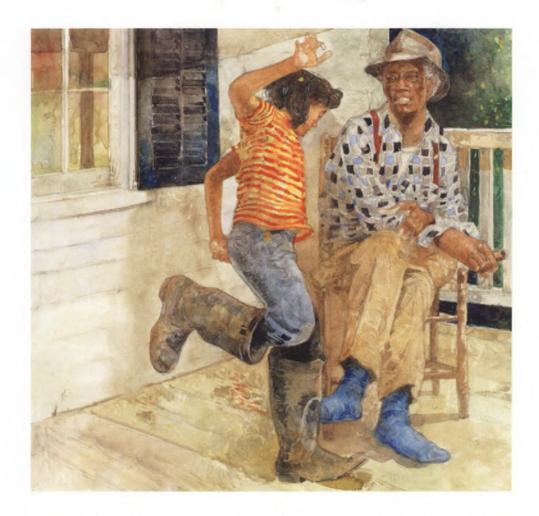


Boy, did we cheer, all of the cousins and even the grown-ups—all except Gramps.

I remembered something he'd once said: "Why spend all that money to go to the moon when there's so many folks in need right here on Earth?"

"Because we can!" I'd almost shouted, but caught myself.





I began to wonder then what Gramps's dreams had been. From the time he was little, he had worked the farm, doing the same jobs, day to day, season to season.

When the crickets began to sing, Gramps took out his pipe. I pulled off his dirt-caked boots for him and stomped around the porch.

"Gramps, will you watch it with me tonight ... the moon walk?"

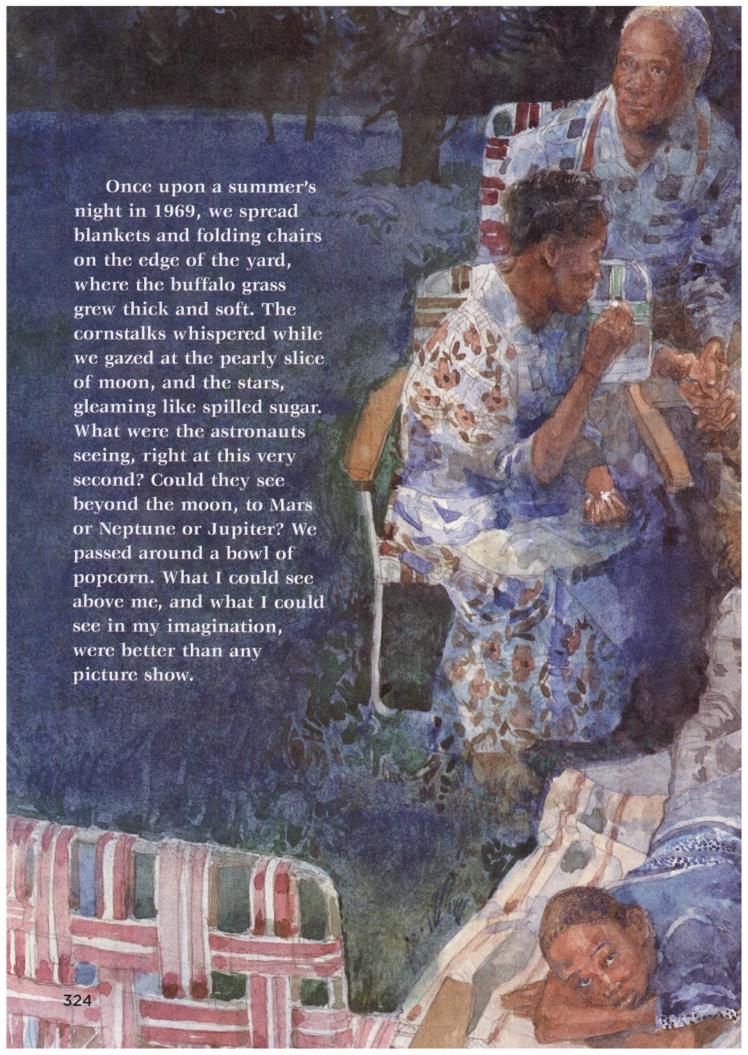
"I'm mighty worn out today," he said, "but maybe."

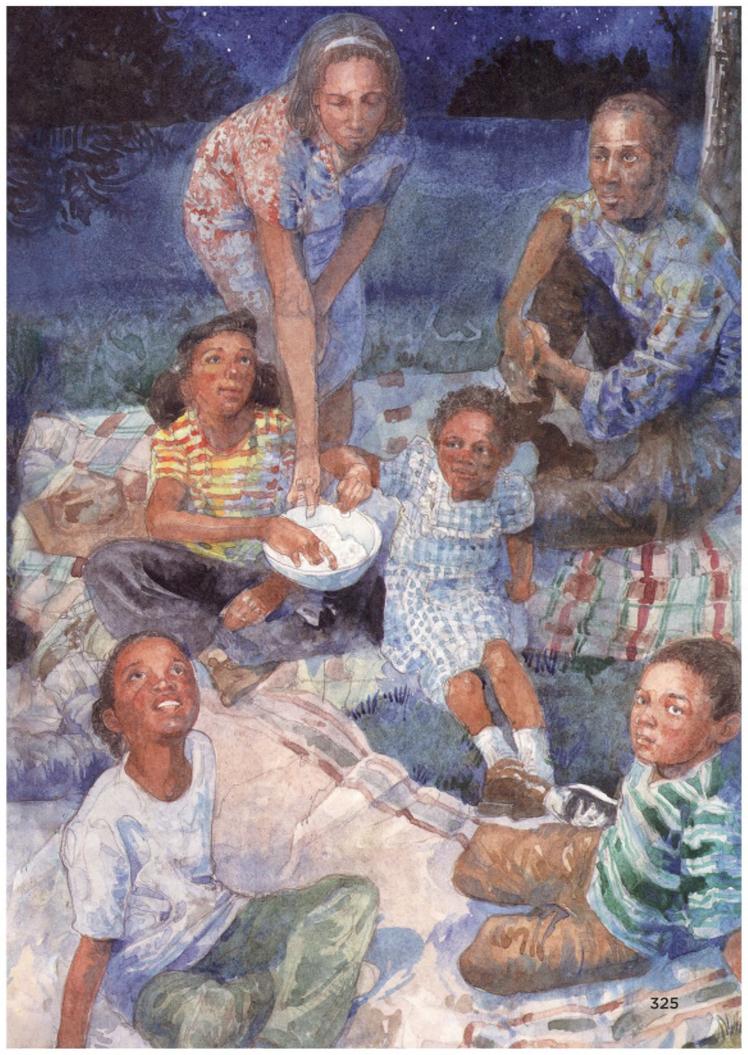
Suddenly, I could see how tired he was. Lifetimetired. There were deep lines in his face—a farmer's face, an old farmer's face.

"All right, Gramps," I said. "It's okay."

### STOP AND CHECK

**Confirm Predictions** Why didn't Gramps react to the moon landing?





Later on that summer's night, in 1969, the television screen flashed with words that gave me goose bumps: LIVE FROM THE SURFACE OF THE MOON.

And Mr. Cronkite said, "... Neil Armstrong, thirty-eight-year-old American, standing on the surface of the moon on this July twentieth, nineteen hundred and sixty-nine!"

I didn't know it then, but there were 600 million people the world over watching with me, and listening, when Commander Armstrong said, "That's one small step for man, one giant leap for mankind." All of us—from New York to Tokyo to Paris to Cairo ... to Star—and maybe even President Kennedy too—all of us watched it together, the astronauts bounding across the moon like ghosts on a trampoline.

I felt a hand on my shoulder. "I reckon that's something to remember," Gramps said quietly.





Later, when it was as quiet as the world ever gets, Gramps and I stood together under the moon. "What's mankind?" I asked him.

He puffed on his pipe. "It's all of us," he finally said. "All of us who've ever lived, all of us still to come."

I put my hand in his. "Just think, Gramps: If they could go to the moon, maybe one day I could too!"

"Great days," he said, "an astronaut in the family. Who'd a thought."

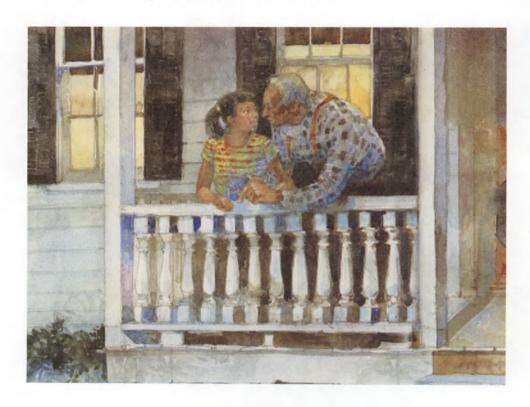
I smiled in the dark. My gramps was proud of me.

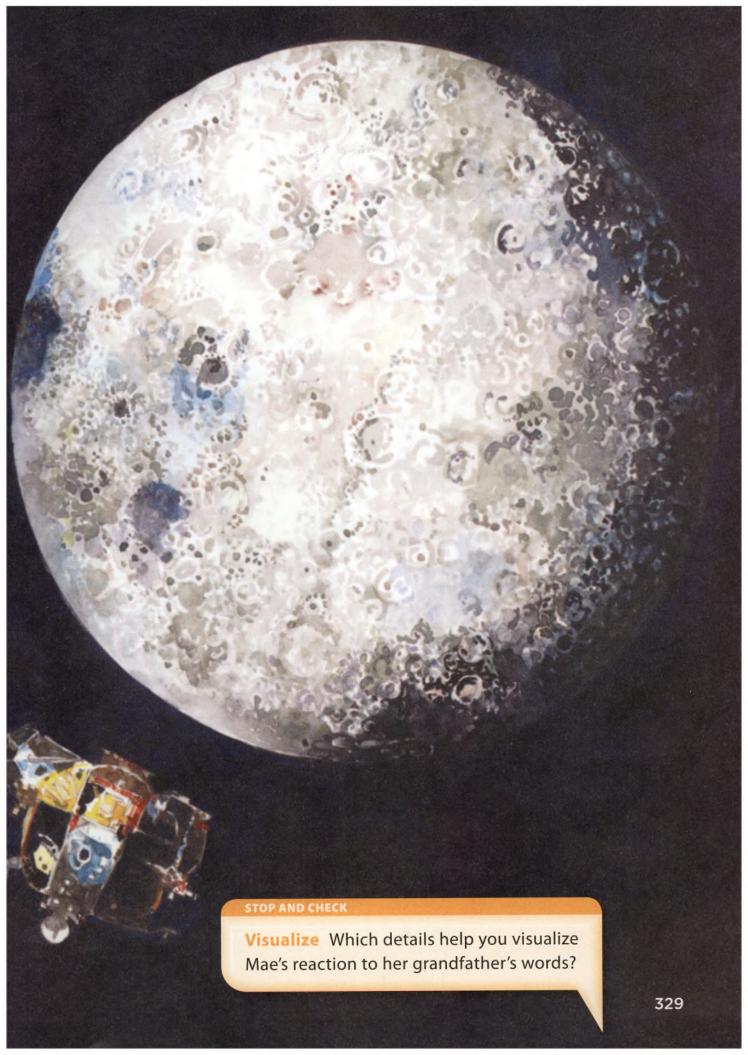
"First airplane I ever saw ... I was your age ... was right over yonder," Gramps said, nodding toward the cornfield. "That was something to see, oh boy ... something to see."

A sigh in Gramps's voice made my heart squeeze.

"Keep on dreaming, Mae," he said. "Just remember, we're here now together on the prettiest star in the heavens."

Gramps had looked to the moon all of his life. It told him when to plant and when to harvest. And once upon a summer's night, it told me to dream.

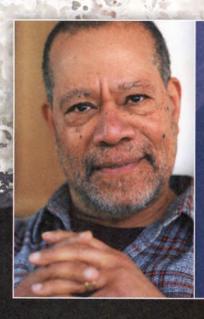




# ABOUT THE AUTHOR AND ILLUSTRATOR



Dianna Hutts Aston was five years old when astronauts landed on the moon. She grew up in Houston, Texas, home of the Johnson Space Center. Today, Dianna's nonprofit organization gives hot air balloon rides to Mexican children in orphanages and rural villages. To her, an important part of writing is "thinking and dreaming."



Growing up, Jerry Pinkney used artistic skills to overcome a reading problem. He turned the words into pictures in his imagination to understand a story. Jerry has illustrated more than 100 children's books and novels. He has also created paintings for the NASA Art Collection at the Kennedy Space Center.

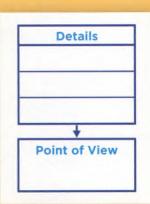
# Author's Purpose

Why does the author use the phrase "Once upon a summer's morning . . . noon . . . night" at different points in the story?

# RESPOND TO READING

# **Summarize**

Summarize the sequence of events in *The Moon Over Star*. Think about how the moon landing affects Mae as she tells her story. Information from your Point of View Chart may help you.



# **Text Evidence**

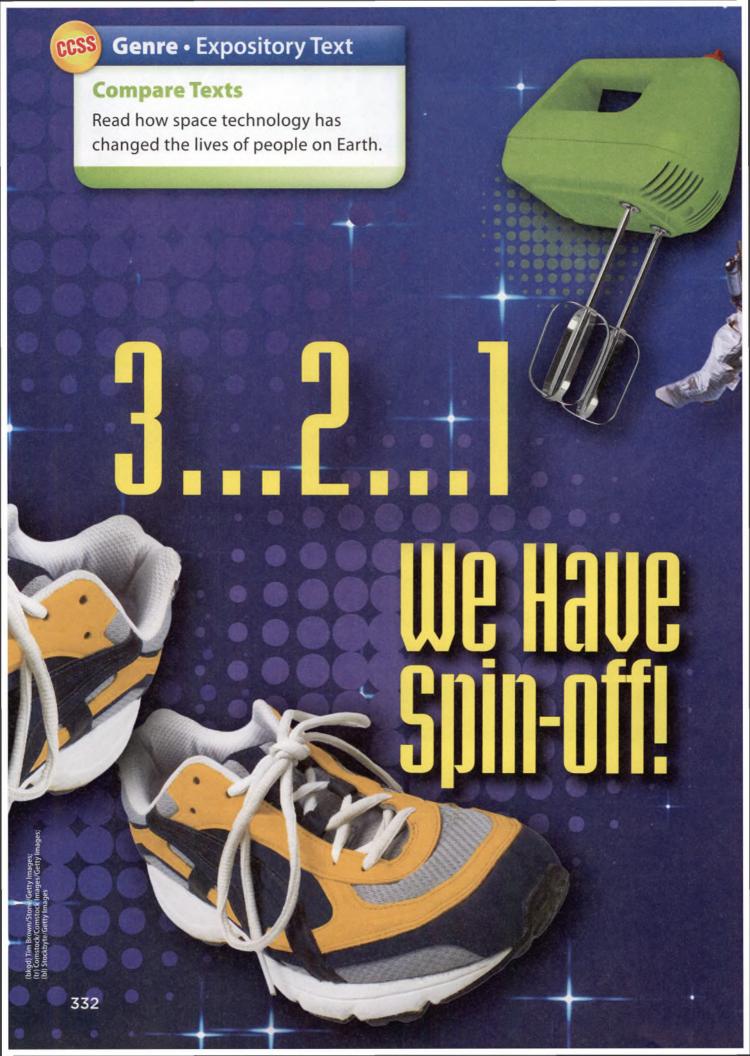
- 1. Which details in *The Moon Over Star* indicate that the story is historical fiction? **GENRE**
- 2. How does the point of view used in the story help you understand the impact of the moon landing? POINT OF VIEW
- **3.** Mae describes the astronauts as "bounding across the moon like ghosts on a trampoline." What is a synonym for bounding? Explain how context clues helped you. **SYNONYMS**
- 4. Write about how the story would be different if it were written from Gramps's point of view. WRITE ABOUT READING

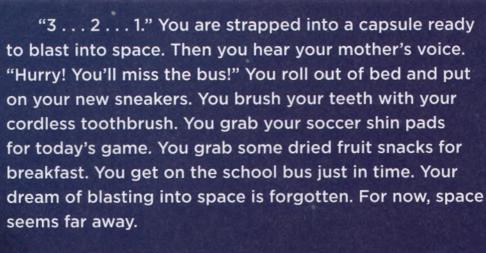
### **Make Connections**

What does the moon landing mean to Mae and her family? **ESSENTIAL QUESTION** 

New inventions and technology have had a huge impact over time. Which invention or technology has had the biggest impact on our world since the moon landing? **TEXT TO WORLD** 





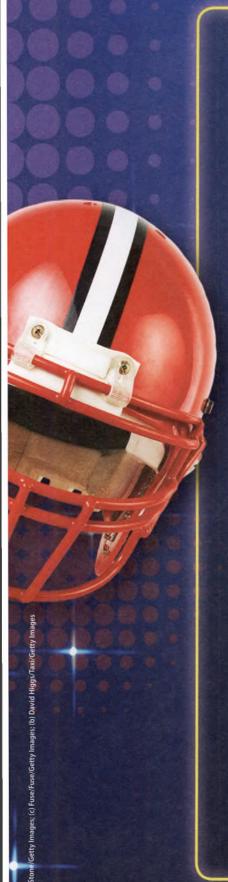


# **All Around Us**

Actually, space is not far away. It's all around us. The technology used in the space program has led to many products that people and businesses use every day. These improvements and inventions are called spin-offs from the space program. Today's lightweight athletic shoes use padding and air cushion soles first used in space suits. Space program scientists developed cordless appliances and dried foods for astronauts. School bus frames, brakes, and tires are safer today because they use technology first developed for spacecraft.

Many spin-offs are currently found in homes. Smoke detectors were developed decades ago for use on Skylab, America's first space station. Cordless tools were developed to bring back rock samples from the moon. Do you ever talk to other players over headsets during online video games? If so, you are using a spin-off from the headset that astronaut Neil Armstrong spoke into when he made his "giant leap" onto the moon.

Present-day headsets are a spinoff from the one Neil Armstrong used on the moon.



Space program spin-offs are easy to find in grocery stores. Many stores carry freeze-dried foods in sealed packages. These foods, which can serve as snacks or meals, were first developed for astronauts who needed lightweight foods that would not spoil. Did you ever wonder how foods such as milk and eggs stay cool on open shelves? Space program scientists developed ways to keep foods safe in extreme temperatures. That technology is used in supermarket refrigerators today.

# **Sports**

Spin-offs have also changed sports for athletes and for fans. Helmets for football players use padding first developed for spacecraft seats. Many athletes use heart rate monitors when they work out. Those were first developed to keep track of an astronaut's health during long flights.

Spin-offs help fans, too. Many stadiums have roofs that cover the field during bad weather. The fabric used in those roofs was first used in astronauts' spacesuits. Those large plasma screens that show game action were also first developed for the space program.

# **Public Safety**

Spin-offs do more than make life easier. They keep people safe as well. Improvements in video cameras used in space now help police protect people. Face masks, breathing systems, and fire suits used by firefighters today were developed from spacesuits worn by astronauts. One result of space program engineering is a special improved cutting tool used

to remove people from cars after accidents. The tool is lightweight and can free people in minutes.

The protective gear worn by firefighters was developed from spacesuits worn by astronauts.

Spin-offs are also helping people with diseases and disabilities. Ear thermometers using technology from the space program can read temperatures in a few seconds. Today, doctors can take clear images of human organs with scanning equipment. These "cameras" are spin-offs from space program research. People with kidney disease benefit from space program technology that removes waste from their blood. Space program research on robotics has led to breakthroughs in artificial limbs.

# **Heads Up**

How close is space? If you need extended-wear contact lenses, you may actually be looking through space technology. The special plastic used in these lenses was perfected during an experiment on board the Space Shuttle.

These are only some of the spin-offs in our daily lives. There isn't enough "space" to list them all. What other spin-offs can you discover?

New research on robotics has led to advancements in artificial limbs.

### **Make Connections**

How have spin-offs changed our lives on Earth? **ESSENTIAL QUESTION** 

New technology has led to new discoveries. Compare and contrast different ways in which space technology has made an impact. TEXT TO TEXT

# Why Does the MOON Change Shape?

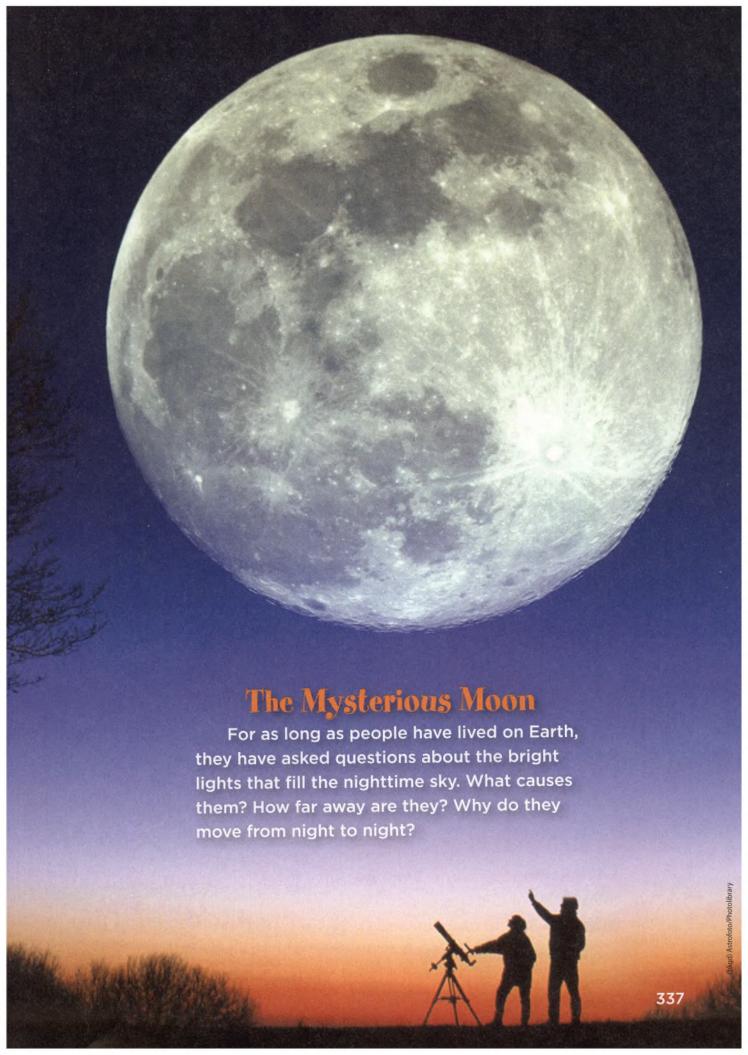
By Melissa Stewart



How do you explain what you see in the sky?

Read about the different phases of the moon.

Go Digital!



For thousands of years, the Moon has been the most mysterious nighttime object of all. It is the largest object in the night sky, and it is the brightest. What amazed ancient people the most is how the Moon's shape is constantly changing. Sometimes it looks like a full bright circle. Other times, only a tiny **sliver** appears.

It did not take ancient people long to realize that the Moon's changes, or **phases**, follow a regular pattern. The Moon's phases repeat themselves every twenty-nine or thirty days. If you watch the Moon every night for about a month, you can see all its phases.

At the beginning of each cycle, people on Earth cannot see the Moon at all. After a few days, a tiny sliver of light appears in the nighttime sky. Each night, the Moon looks a little larger. After a week, it looks like half of a circle. And about a week after that, a full round disk brightens the night sky.

But then the Moon starts to shrink. Each night it gets a bit smaller. After about a week, the Moon looks like half of a circle. And a week after that, the Moon disappears completely. But a few days later, a tiny sliver of light returns.

This 600-year-old drawing shows two European astronomers studying the Moon and recording their observations in a notebook.

### STOP AND CHECK

Ask and Answer Questions Why were ancient people amazed by the Moon? Go back to the text to find the answer.



This series of photos shows what the Moon looks like during each night of its cycle. You can see one half of the Moon lit up on Day 7, a Full Moon on Day 14, and the other half of the Moon lit up on Day 21.

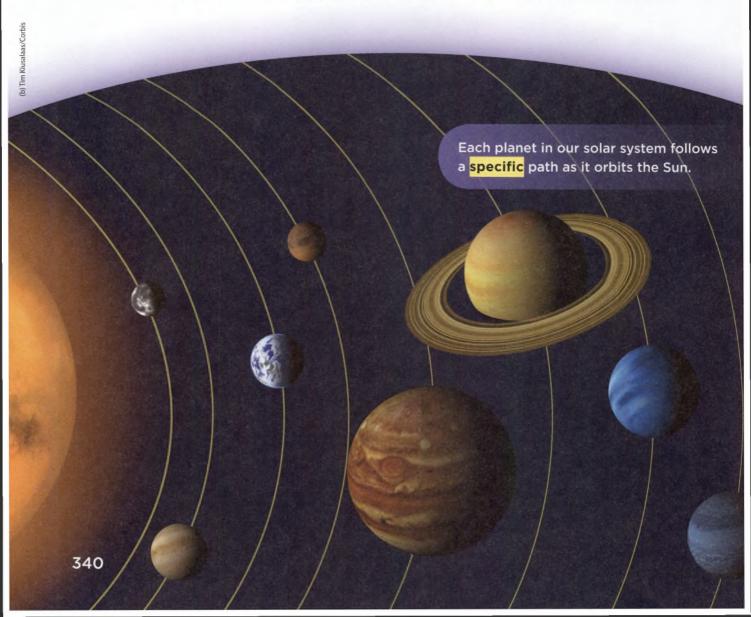


# **Our Place in Space**

Earth is one of eight planets in our solar system. The other planets are Mercury, Venus, Mars, Jupiter, Saturn, Uranus, and Neptune.

All eight planets orbit, or move around, a star called the Sun. A year is the amount of time it takes a planet to circle the Sun once. Earth completes the trip in about 365 days, so an Earth year is 365 days long. That is the amount of time between your last birthday and your next birthday.

Mercury is the closest planet to the Sun. It makes one full orbit in just eighty-eight days, so a year on Mercury is much shorter than a year on Earth. Neptune is the farthest planet from the Sun. It takes Neptune 165 Earth years to circle the Sun. That is a really long time to wait between birthdays!





Planets are not the only objects that orbit the Sun. Thousands of smaller, rocky chunks called asteroids and dwarf planets do, too. Most asteroids follow paths located between Mars and Jupiter. Dwarf planets, such as Pluto, are larger than asteroids. Their orbits are located beyond Neptune. Comets are small icy objects that orbit the Sun. Their orbital paths around the Sun are long and thin, like a cucumber.

Planets, asteroids, dwarf planets, and comets do not fly off into space because the Sun's gravity is always tugging on these smaller objects. Their forward movement is perfectly balanced with the pull of the Sun's gravity.

# The Moon in Motion

The Sun is not the only object in our solar system with enough gravitational pull to attract smaller bodies. Six planets—Earth, Mars, Jupiter, Saturn, Uranus, and Neptune—have smaller objects orbiting them. So do a few asteroids and dwarf planets. These smaller objects are moons.

Scientists have identified at least sixty moons circling Jupiter. Saturn probably has even more. But Mars has just two moons, and Earth has only one.



In this image of Earth and the Moon, you can see part of the far side of the Moon, the half of the Moon that never faces Earth.

Earth's Moon is closer to Earth than any other object in space. Still, it took Apollo astronauts traveling at rocket speed about four days to reach the Moon in the late 1960s and early 1970s. The Moon is about 238,860 miles (384,400 kilometers) from Earth. That is almost one hundred times farther than the distance between New York, New York, and Los Angeles, California.

It takes the Moon about twenty-seven days to complete one full orbit around Earth. That means it circles our planet about twelve times each year.

As the Moon orbits Earth, it also **rotates**, or spins like a top. Earth rotates too. Our planet takes about twenty-four hours—or one full day—to complete one rotation. The Moon spins much more slowly. It rotates just once during each twenty-seven day orbit.

As Earth spins, different areas of the planet face the Sun. It is daytime in the places that are facing the Sun. That is why days are bright and sunny. It is nighttime on the part of Earth facing away from the Sun. That is why it is dark at night.

The amount of time it takes the Moon to rotate is the same as the time the Moon takes to orbit Earth, so people on Earth always see the same side of the Moon.

Scientists call the side we see the near side.

When the near side of the Moon is lit up by the Sun, we see a full, bright circle.

When the far side of the Moon is fully lit up by the Sun, we cannot see the Moon at all.

A total of six Apollo spacecraft carried people to the Moon. The astronauts returned with photos, rock samples, and amazing stories of what they saw as they cruised around in lunar rovers.



This x-ray image of the Sun shows some of the fiery gases it sends out into space. 344

# Let There Be Light

The Sun is a star—a giant ball of boiling gases. The temperature at the center of the Sun is 27 million degrees Fahrenheit (15 million degrees Celsius). The gases inside the Sun are so hot that it glows. The Sun is not the biggest star in the Universe, but it looks the brightest in the sky to us because it is the closest.

During some parts of the year, we can see Venus, Mars, Jupiter, and Saturn as bright, steadily shining dots of light in the night sky. But these planets do not produce their own light. The light we see when we look at them comes from the Sun. As the Sun's rays hit a planet, some of the light bounces off the planet's surfaces and travels back into space. When some of that reflected light reaches our eyes, the planet seems to glow. The Moon reflects the Sun's light, too.

We know from astronauts and space vehicles visiting the Moon that it is made of solid rock. There is no source of light on the Moon. We can only see the Moon when the Sun is shining on it, and then that light is reflected off the Moon's surface and into our eyes. The Moon is much smaller than Venus, Mars, Jupiter, and Saturn, but it looks bigger and brighter to us because it is much closer to Earth than those planets are.

### STOP AND CHECK

Ask and Answer Questions How are we able to see planets and moons when they do not produce their own light?

Go back to the text to find the answer.

# Why Does the Moon Change Shape?

During any twenty-nine or thirty day period, the Moon's appearance seems to gradually change and then return to its original shape. But the Moon is not really changing at all. What you are seeing is the Moon being lit up by the Sun's rays in different ways on different days. What causes these differences? Changes in the positions of the Moon and Earth.

The Moon's light comes from the Sun. It looks different to us on different days because the Moon and Earth are always moving.

This Crescent Moon appeared 5 days after the New Moon.

In the first phase of the Moon, called the New Moon, the giant ball of rock is not visible on Earth at all.

That is because the Moon is in between the Sun and Earth. The far side of the Moon is being lit up by the Sun, but the near side is not.

As the Moon orbits our planet, more and more of the near side is lit up by the Sun's rays. After a few days, you can see a C-shaped sliver called a Crescent Moon. Some people think this phase of the Moon is shaped like a **crescent** roll.

Close to one week after you see the New Moon, the Sun lights up about half of the near side of the Moon. This phase is called the First Quarter Moon because the Moon is now one-quarter, or 25 percent, of the way through its full cycle.

A few days later, the Moon will have traveled far enough in its orbit for you to see a shape that has curved humps on both sides. This phase is called the Gibbous Moon because *gibbous* is the Latin word for *humped*.

Around two weeks after you see the New Moon, the Sun shines directly on the near side of the Moon. The entire Full Moon is lit up.

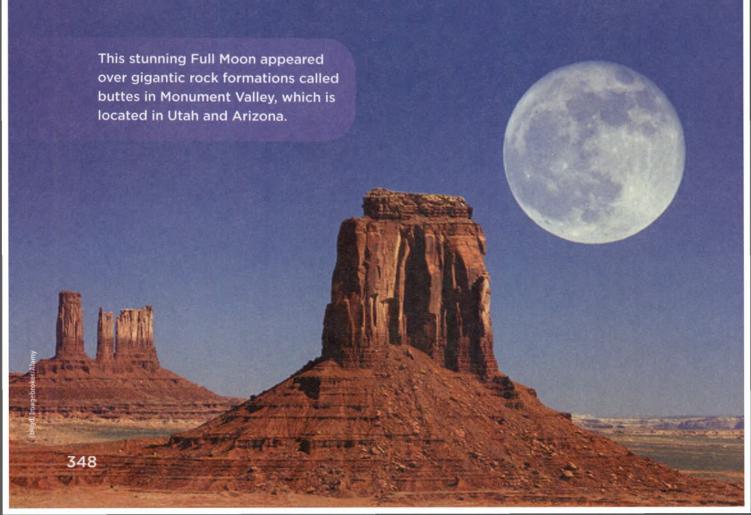
As the Moon continues to orbit around Earth, the Moon begins to disappear. After a few days, you will see another Gibbous Moon in the sky.

Close to three weeks after you saw the New Moon, the Sun lights up only about half of the near side of the Moon. This phase is called the Last Quarter Moon because the Moon is now just one-quarter, or 25 percent, away from completing its full cycle.

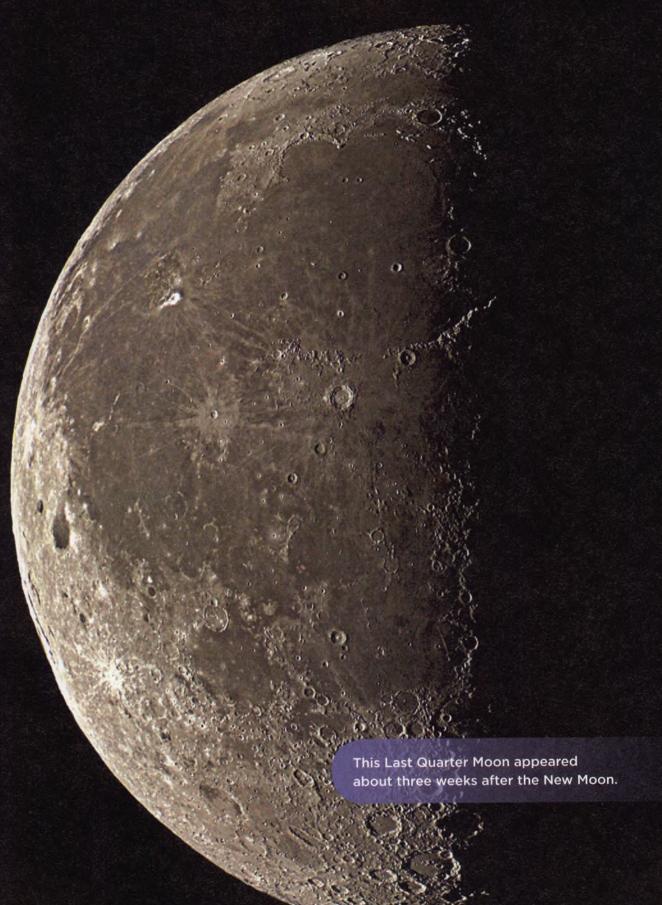
A few days later, all but a tiny sliver of the Crescent Moon will have disappeared. Most of the Sun's rays are now falling on the far side of the Moon.

In just a few more days, the Moon will disappear completely. The Moon has returned to its original position in its orbital path. The far side of the Moon is fully lit up by the Sun, but the near side is in complete darkness.

The Moon has cycled through its phases for years, and it will continue to do so as long as our planet and its mysterious moon exist.







# About the Author



**Melissa Stewart** believes in the power of nature. She thinks that every part of nature has a story to tell—and Melissa is listening!

Melissa fell in love with nature as a child while walking through the woods with her father. Today, she writes science books about what she loves. Melissa enjoys writing children's books because kids are so curious. Some of her best books have grown out of her own wonderings.

When Melissa isn't writing, she likes to be outside. She also speaks about science at schools, and she teaches writing courses. Melissa has advice for kids everywhere:

Go out and explore!

# **Author's Purpose**

Why does the author include photographs with captions in Why Does the Moon Change Shape?

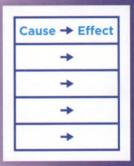




# Respond to Reading

# Summarize

Use important details from Why Does the Moon Change Shape? to summarize what you learned about the phases of the Moon. Information from your Cause and Effect Chart may help you.



# **Text Evidence**

- 1. How do you know that Why Does the Moon Change Shape? is an expository text? **GENRE**
- 2. Why does the Moon appear so big and bright to people on Earth? CAUSE AND EFFECT
- 3. What does the phrase gravitational pull mean in the first paragraph on page 342? Identify the context clues that help you determine the meaning. PARAGRAPH CLUES
- 4. According to the text, we always see the same side of the Moon. Explain what causes this to happen. WRITE ABOUT READING

### **Make Connections**

Why does the Moon have different phases? **ESSENTIAL QUESTION** 

Why have people all over the world been fascinated by what they see in the sky? Explain your response. TEXT TO WORLD

# **Compare Texts**

Read two myths that seek to explain what people see in the sky.

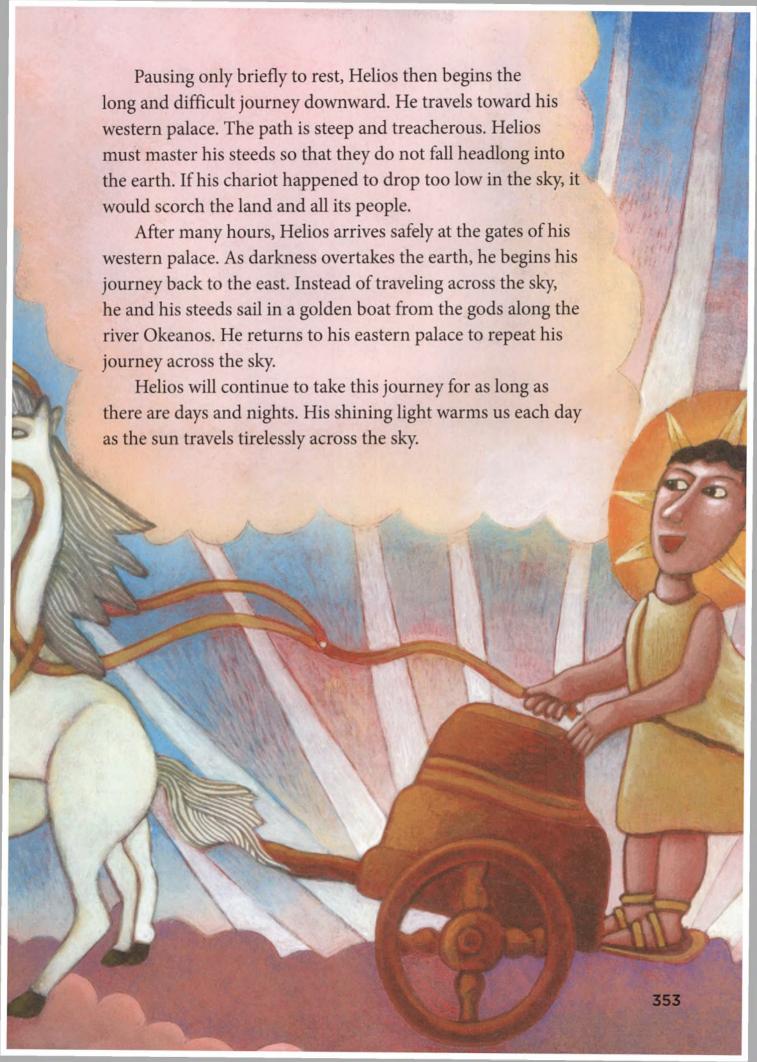
# HOW IT CAME TO BE

The following two myths originated thousands of years ago, during a time when people did not yet enjoy all the benefits of modern science. **Astronomers** with **telescopes** did not exist to answer questions about the universe. Instead, people told stories to explain what they saw in the sky above.

### WHY THE SUN TRAVELS ACROSS THE SKY

A retelling of a Greek myth

Helios, the Titan god of the sun, brings light to the earth. He dwells in a golden palace in the east on the river Okeanos. Each morning, Helios follows his sister Eos, the goddess of the Dawn, across the sky. He drives a shining chariot, drawn by four noble steeds, upward through the clouds. The chariot moves higher as rays of brilliant light pour forth from Helios's crown. Slowly, the steeds climb with a single purpose. Hours later, they finally reach the highest point of the sky.



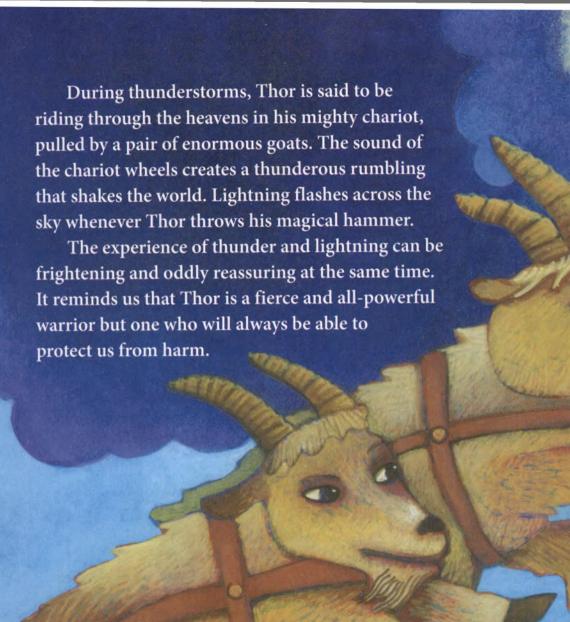


A retelling of a Norse myth

Thor, the mighty Norse god of thunder and lightning, is both large and powerful. With his long hair, flowing beard, and quick temper, he often intimidates other gods. Despite his fierce appearance, he is considerably popular. Thor is admired for his ability to protect both gods and humans against evil. Among the Norse gods, he is the strongest of all.

Thor lives with other warrior gods in Asgard, one of the nine worlds located at the highest level of the Norse universe. Odin, Thor's father, rules Asgard. Odin is a great warrior who is often associated with a quest for wisdom. Still, he is not nearly as popular as his son.

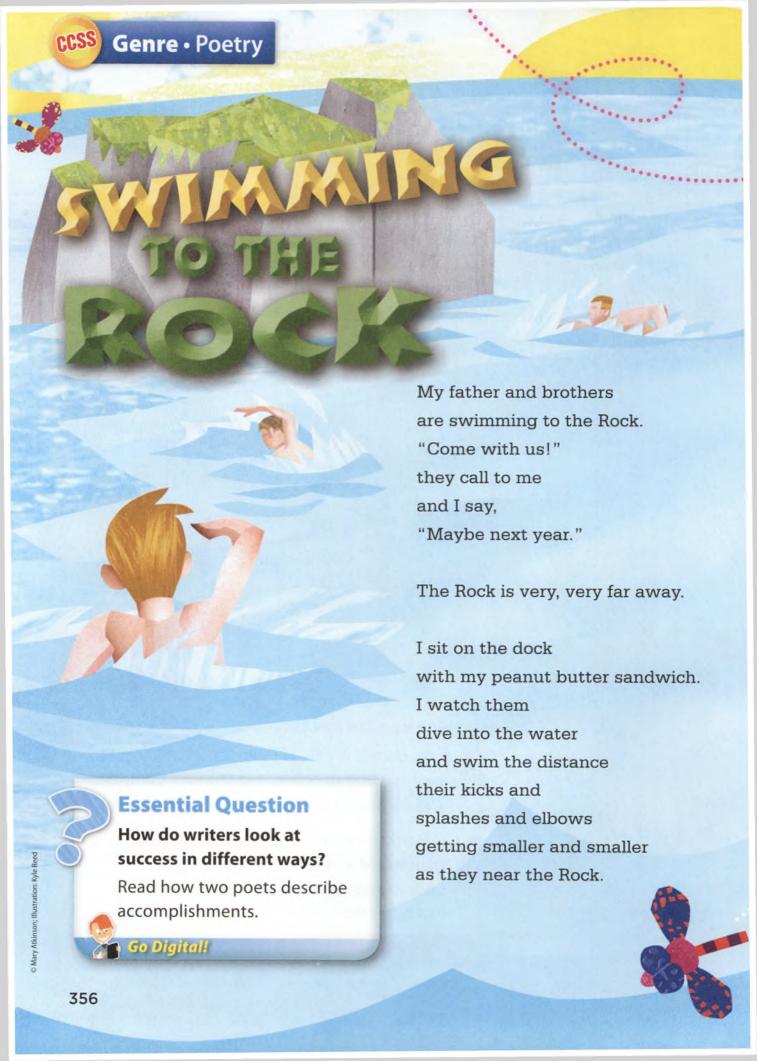
Three treasures help Thor emerge victorious time and time again. One is a belt that increases his strength. Another is a pair of iron-clad gloves. The third treasure is his greatest—a mighty war hammer. This hammer helps Thor protect Asgard from all enemies. When Thor throws his hammer, it magically returns to him like a boomerang.

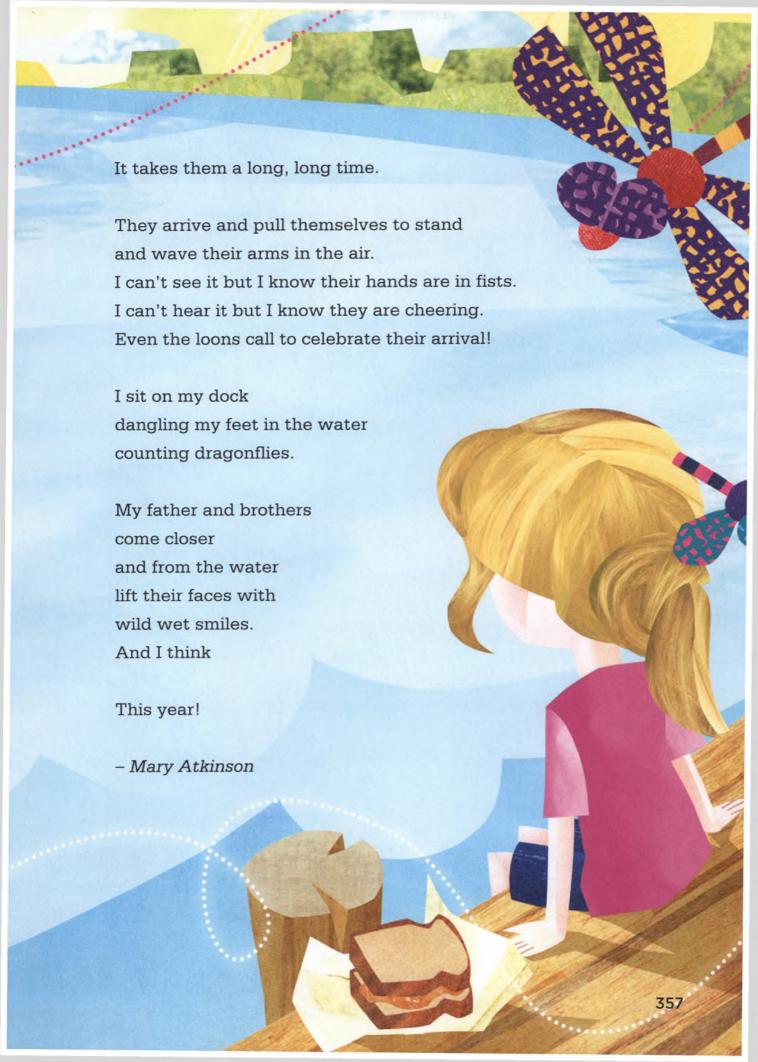


### **Make Connections**

How do the myths of Helios and Thor help to explain what people see in the sky? Compare and contrast the myths. **ESSENTIAL QUESTION** 

Contrast how ancient people understood their world and how modern people understand the world today. Explain using examples from the selections. TEXT TO TEXT







Woodstock, Vermont, July 20, 1969

We'd been watching, watching, watching all day long into the night:

Mission Control in Houston,

Apollo astronauts in flight.

A new chapter of history was about to open soon.

The Apollo slowed...then quickened, speeding closer to the moon.

The others went to bed, but not Aunt Mary and me. We kept watching, watching, watching

each slow stage on the TV:

the hovering Landing Module
the Sea of Tranquility,
and the astronaut, Neil Armstrong,
moving oh so carefully...

I was holding my breath

—Aunt Mary said she'd held hers, too until we saw the moondust footprint made by Armstrong's ribbed left shoe!

That footprint marked a moment an awesome human victory. We were watching history happen, my aunt Mary...and me.

- Bobbi Katz

# Respond to Reading

# **Summarize**

Use important details from "Swimming to the Rock" to summarize what happens in the poem.

Information from your Theme Chart may help you.

# **Text Evidence**

- 1. Explain how you know that "Swimming to the Rock" is a narrative poem. GENRE
- 2. Give an example of repetition in the first two stanzas of "The Moondust Footprint." Why do you think this word is repeated in the poem? LITERARY ELEMENTS
- 3. In "Swimming to the Rock," the narrator says that her father and brothers "lift their faces with / wild wet smiles." What is the denotation of the word wild? What does this word suggest about the narrator's family? CONNOTATION AND DENOTATION
- 4. Write about the theme of "The Moondust Footprint."

  Tell how the poet's style helps you understand the

  theme, WRITE ABOUT READING

# **Make Connections**



What does accomplishment mean to each of the poets? **ESSENTIAL QUESTION** 

In these two poems, each poet approaches the idea of success differently—it is personal for one poet and universal for the other. What are some other achievements, large or small, that poets might use as examples of success? **TEXT TO WORLD** 

Clue

# **Compare Texts**

Read how two poets describe moments of triumph.

# Genius

"Sis! Wake up!" I whisper in the middle of the night.

Urgently, I shake her till she switches on the light.

The spiral notebook in my hand provides her quick relief.

It tells her there's no danger of a break-in by a thief.

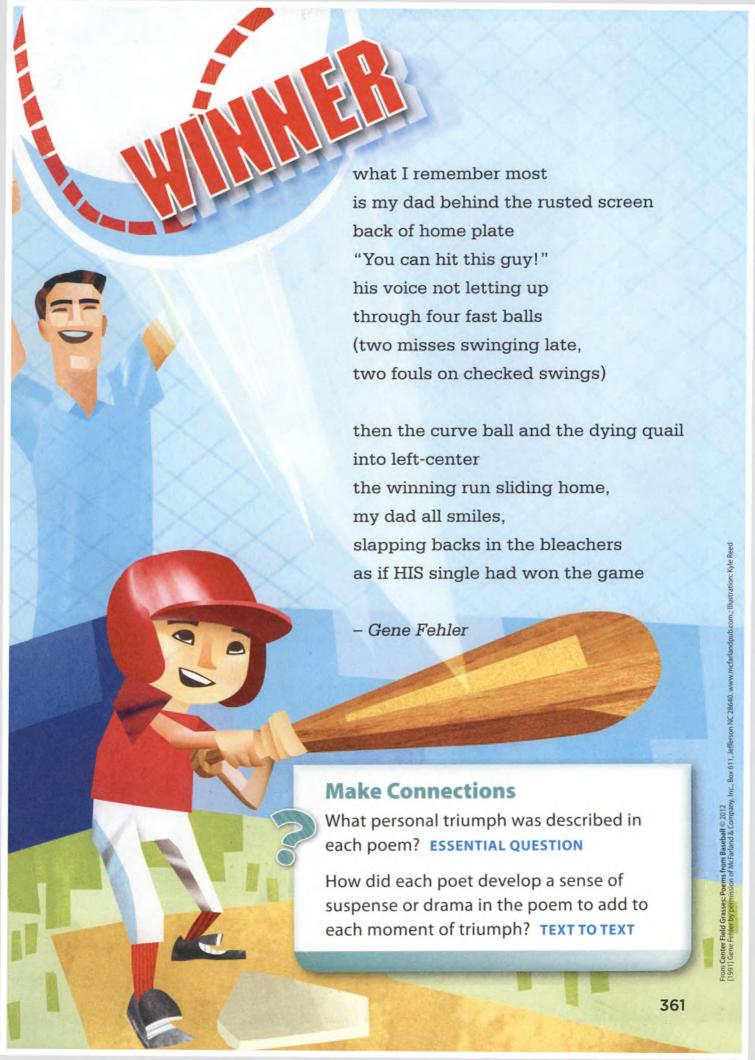
"Okay, "she says, then, props herself up vertically in bed.

She nods for me to read my work. I cough, then forge ahead.

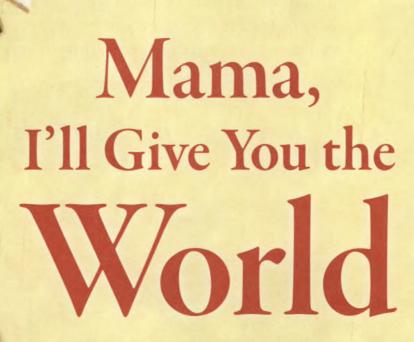
The last verse of my poem leaves her silent as a mouse.

I worry till she says, "We have a genius in the house."

- Nikki Grimes



**Genre** • Realistic Fiction



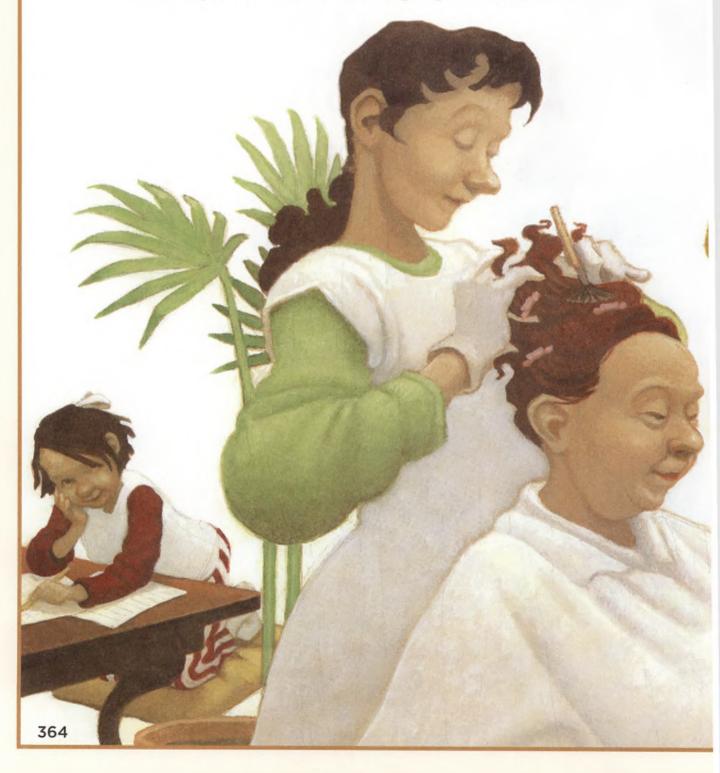
by RONI SCHOTTER

illustrated by
S. SAELIG GALLAGHER

When Papa was around, Mama loved to dance, but Mama doesn't dance anymore. She works hard every day at Walter's World of Beauty, cutting, coloring, and curling.

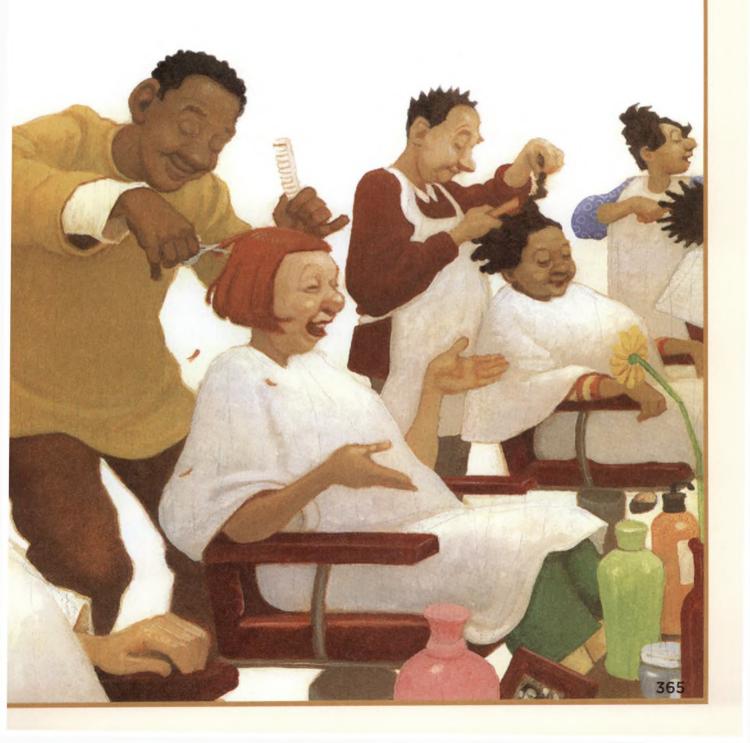
After school each afternoon, Luisa's bus drops her at the door to the World. Everyone greets her—Walter, Rupa, Georges, but especially Mama.

Mama smiles and makes a place for Luisa—on a cushion, under the palm tree. "First things first," Mama always says, so there by Walter's Bottles of Beauty, with names that whisper promises—



Raspberry Radiance, Evening Glamour Glow, Sunday Night Soother—Luisa does her schoolwork.

While Mama, like a magician, turns Mrs. Koo's dark hair the color of sunset, Walter, Georges, and Rupa cut and comb. Luisa does a math problem. Then she writes a story for English about a girl with a magic brush that brushes people's cares away.





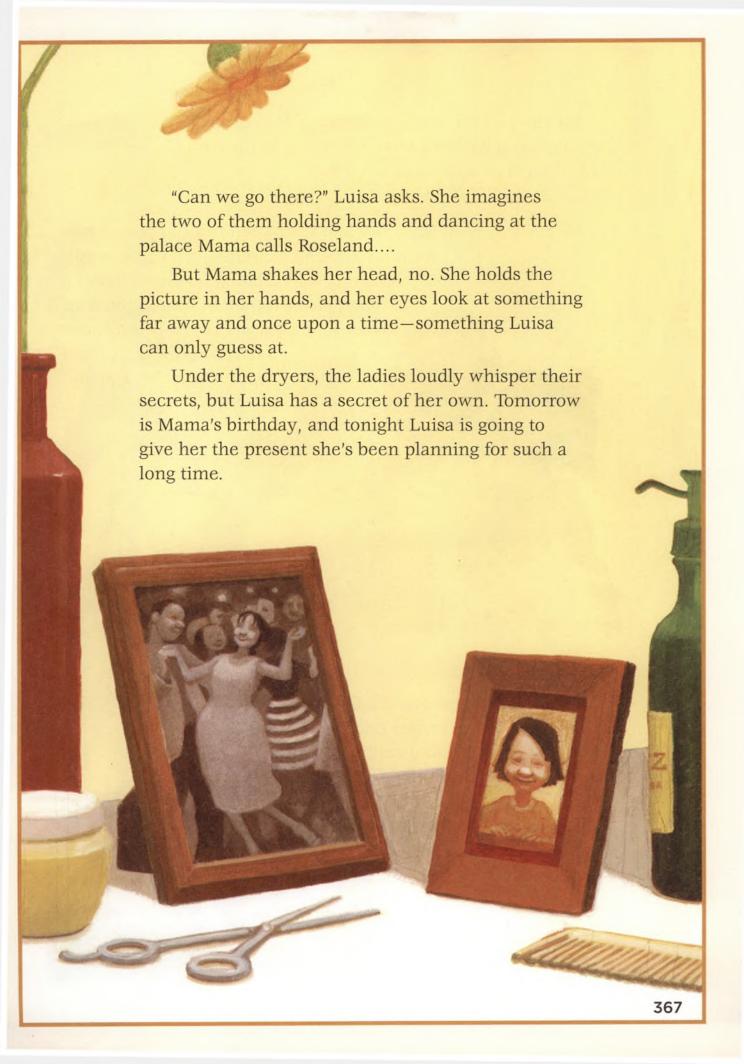
When she finishes her homework, Luisa takes out her scissors, her glue, and her paper and does what Mama does—cuts and colors and curls—**portraits** of the customers. "Everyone in the world is a flower," her mother always tells her. "Together, they make a **bouquet**." So Luisa cuts slowly, noticing how different each flower is, and how each one comes in a special size and shape.

In between customers, Mama rests in her chair and lets Luisa brush her long, thick curls. Luisa brushes hard, pretending she is the girl in her story, carefully watching her mother's face to see if she can make her smile. Mama hardly ever smiles, but when she does, she is the prettiest flower in the World.

Luisa loves to look at the pictures at her mother's station. One is of Luisa; the other is of Mama long ago—happy and *dancing*—in a large room that looks like a palace, crowded with people and full of lights. Mama says the name of the palace is Roseland, but Luisa doesn't believe her. She thinks her mother has made up the name because she loves flowers.

### STOP AND CHECK

**Visualize** Which sentence on page 366 helps you visualize Luisa's attempts to make Mama smile?



For the past few weeks, whenever Mama isn't looking, Luisa has whispered her secret in the ear of each of Mama's favorite customers—

—when she sweeps up snippets of hair for handsome Mr. Anselmo, who always tells Mama, "Just a little off here and a little off there, please leave it as long as you dare, for you see, don't you know? You can see it is so, that I haven't a lot left to spare."



—when she helps Mama brush and braid Hazel Mae Dixon's go-everywhere hair till it looks like neat, shiny rows of licorice.



—when she sprays **fussy** Mrs. Fogelman's hair that refuses to stand up and obey until Mama teases it with a comb so it can't help standing up—fluffy and high as a great, gray cloud, just the way Mrs. Fogelman likes it!

—and when she removes the giant pink and purple rollers that turn Mrs. Rodriguez's dark tangles into an ocean of gentle waves. At six o'clock it's time at last to go home. Luisa exchanges secret winks with Walter, Georges, and Rupa. Then she and Mama hang up their smocks and empty their pockets, heavy with tip money.

It all goes into a special envelope. "First things first," Mama says. She is saving for Luisa—for college. Mama wants Luisa to learn *everything*.

Outside, the world stretches before them—dark, mysterious, and twinkling with store- and street- and starlight. Luisa and Mama stand together looking at it, feeling oh, so small. Mama's hair **sparkles** in the light. So do her eyes.

"The world is big. So much more for you to know. So much more for you to see. One day, if I can," Mama says, patting the envelope deep in her coat pocket, "I will give the world to you."

No, thinks Luisa. Tonight, if I can, I will give the world to *you*...for your birthday!

### STOP AND CHECK

**Visualize** Which words on page 370 help you visualize the world outside the salon?



At home that evening Luisa asks Mama to try on her prettiest dress—the one with the roses and violets and vines that **encircle** Mama's waist the way Luisa's arms do when they hug. "Please, Mama?" Luisa begs.

"Not now," Mama says. "I'm tired."

"Pretty please?" Luisa asks, opening her eyes as wide as Walter's windows and looking at Mama in a way she knows Mama can't refuse.

"Allll right," Mama says, and puts on her dress.

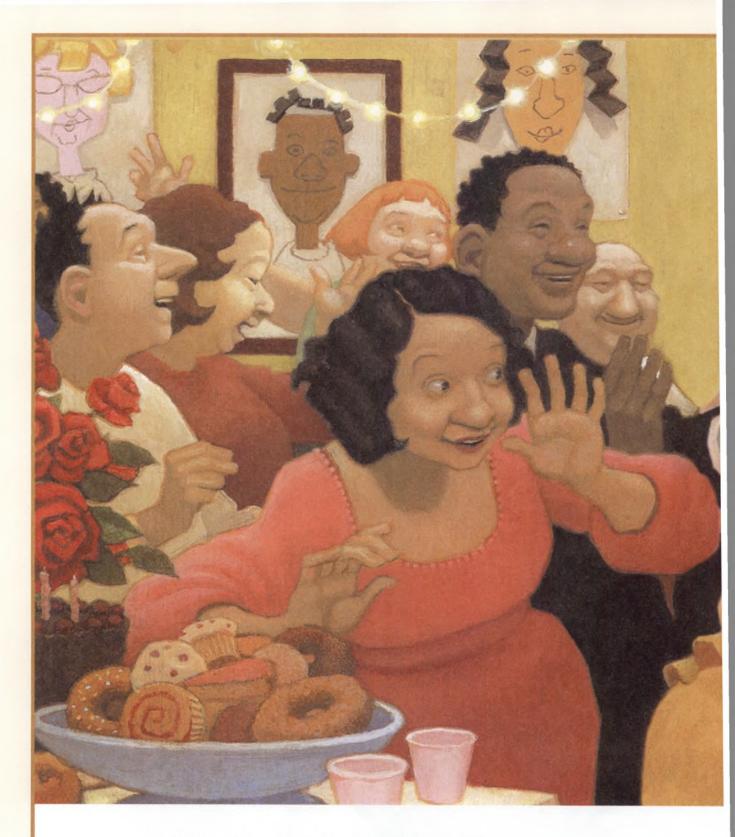
While she does, Luisa pretends to be searching for something. "Mama!" she calls out. "We have to go back to the World! I forgot my book." Luisa hurries and hands Mama her coat.

Mama pushes the coat away. "No," she says. "It can wait until tomorrow."

Luisa is worried. "But Mama," she pleads. "It's for my book report. Don't you always tell me 'first things first'?"

Mama sighs and puts on her coat. Luisa tries not to smile.

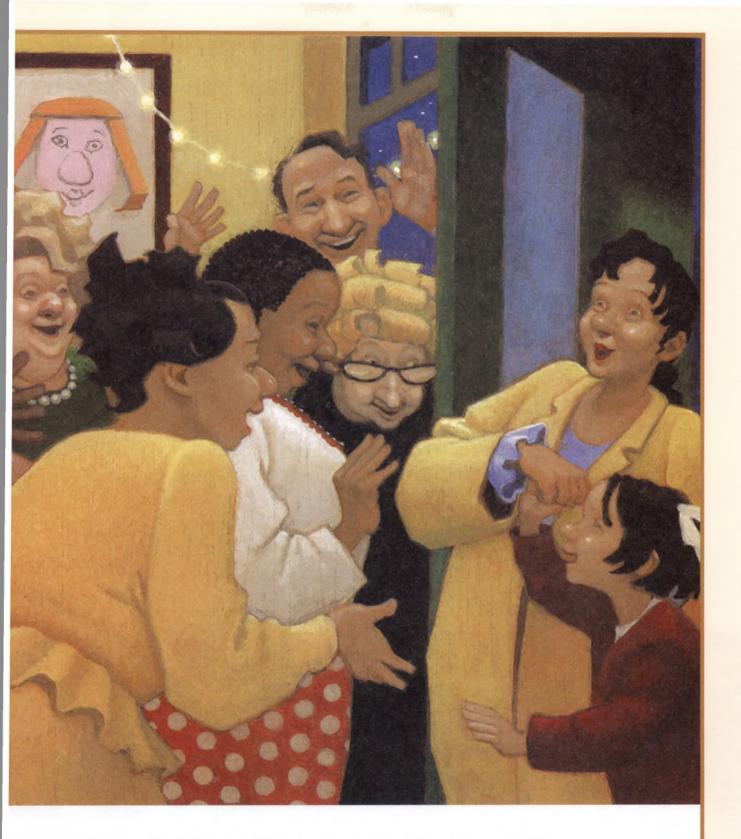




When they get to the World, it is dark.

Luisa holds her breath as Mama takes out her keys and opens the door.

The moment Mama turns on the light, music fills the World. Surprise!



Luisa's portraits dance along the walls and mirrors. Walter, Rupa, and Georges have filled the room with roses and have hung tiny lights that wink like eyes. All of Mama's favorite customers are there, dressed up, but Mama, smiling, is the prettiest of all.

"Happy birthday!" everyone yells. Then, "Speech!" Mama blushes. "First things first," she says, and gathers Luisa into her arms.

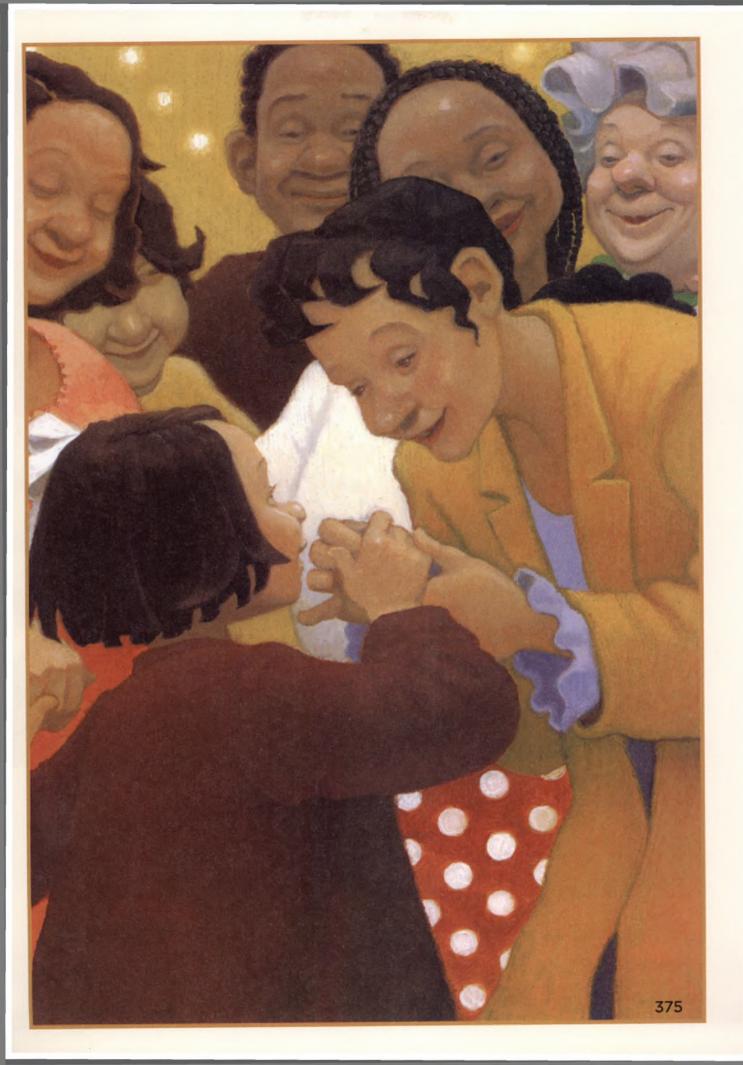
"For your birthday," Luisa says, "I wanted to turn the World into Roseland."

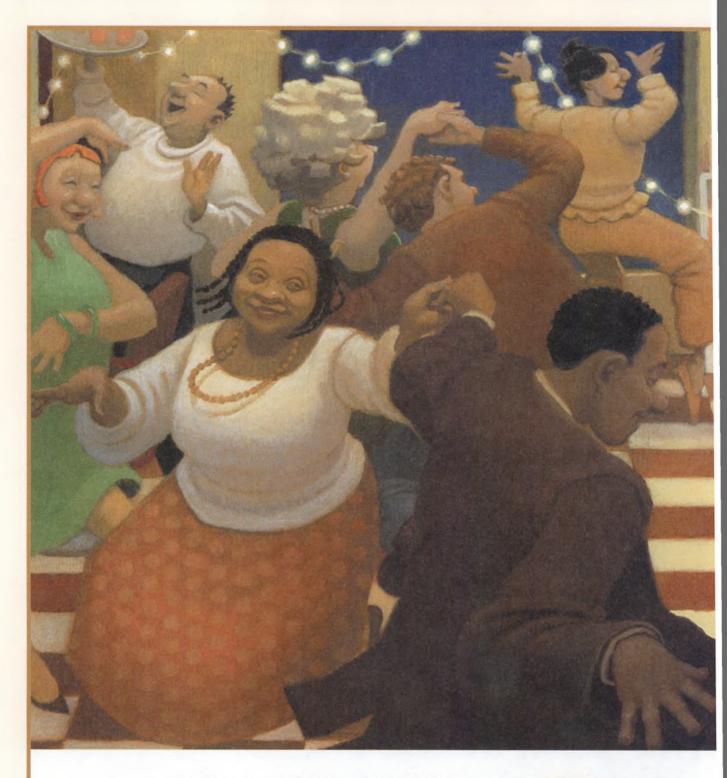
"You did, Lulu-belle," Mama says. "Thank you.... Thank you all."

"Mama," Luisa asks as the music swells from Walter's boom box, "will you dance with me?"

Mama doesn't move and she doesn't answer. She looks at Walter, Rupa, and Georges smiling at her. She looks at Mrs. Malloy's two old feet tapping beside her walker, like two new feet. She looks at Mrs. Fogelman's great, gray cloud of hair turned golden by the lights and changed into a clear-weather cloud. She looks at Mr. Anselmo and Hazel Mae Dixon and Mrs. Rodriguez and Mrs. Koo all dressed in their finest clothes to honor her. Then she looks deep into Luisa's eyes, and Luisa sees that Mama's eyes are no longer far away. They are near and clear and wet with tears. "Shall we dance?" Mama asks Luisa.

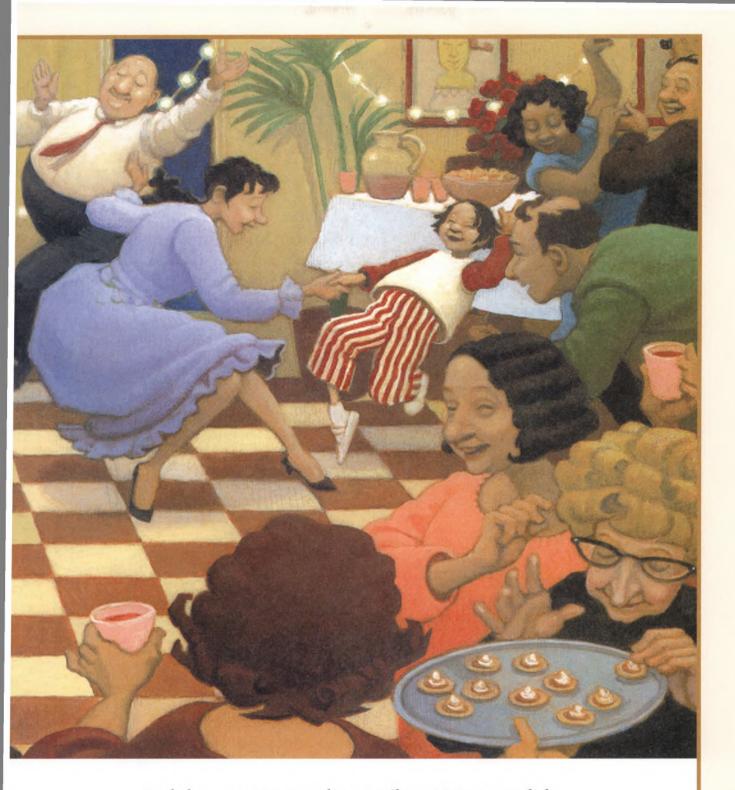






And Mama and Luisa dance! They twirl and **whirl** and laugh together. Soon everyone is dancing, and the World seems to sparkle and spin faster and faster around them.

Then Mr. Anselmo, with a bow so deep that his bald spot shows (and he doesn't even care!), asks Mama and Luisa to dance with him...and they do!



And the way Mr. Anselmo smiles at Mama and the way she smiles back at him make Luisa think there is no more beautiful place in the world than *this* world—the world they are dancing in now.

### STOP AND CHECK

Make Predictions How do Luisa and Mama feel at the end of the story? Make a prediction about their future.

# About the Author and Illustrator

Unlike Luisa, **Roni Schotter** was extremely shy growing up. She even had difficulty asking the school librarian for help finding books. But like Luisa, Schotter had a great imagination. Thinking up stories made her want to become a writer. She has written more than 30 books for young people.

Like Luisa, **S. Saelig Gallagher** uses her imagination to bring words and ideas to life. As an artist, she imagined the way Luisa changed the salon into Roseland and created paintings to show it. She has illustrated many books for young people, including several books of fairy tales.



# Respond to Reading

# Summarize

Summarize the most important events in *Mama*, *I'll Give You the World*. Information from your Problem and Solution Chart may help you.

# Character Setting Problem Events Solution

# **Text Evidence**

- How is Mama, I'll Give You the World an example of realistic fiction? Use details from the story to explain your answer. GENRE
- 2. Why doesn't Mama dance anymore? PROBLEM AND SOLUTION
- 3. Luisa's mother says, "Everyone in the world is a flower."

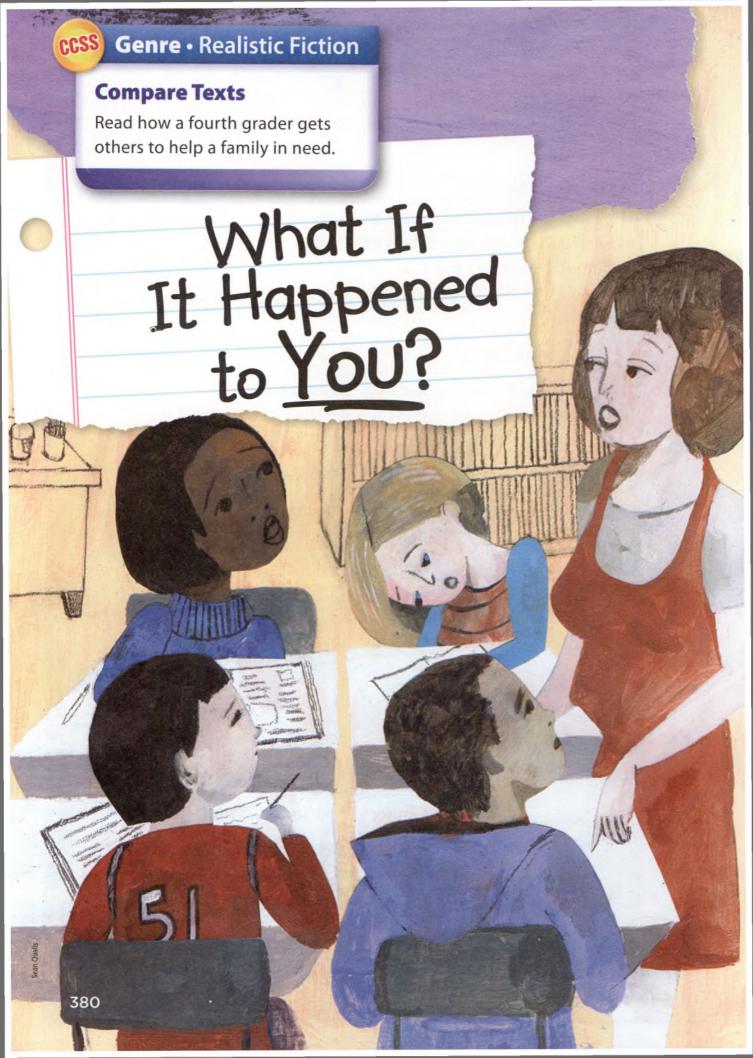
  Explain what this metaphor means. SIMILES AND METAPHORS
- **4.** Write about the various ways in which Luisa tries to make her mother smile. **WRITE ABOUT READING**



## **Make Connections**

Why does Luisa plan something special for her mother? **ESSENTIAL QUESTION** 

In what other ways do people show that they care about each other? What are some things that they do and say? **TEXT TO WORLD** 



ana Robinson couldn't hide the worried look on her face when her friend Yasmin missed school. The two quiet girls had become close friends in the short time since Yasmin's family had moved to the city. Both girls came from big families and shared a love of drawing animals, baking pie, and helping out in the community.

Sitting side by side on the bus and being in the same classroom meant that Jana and Yasmin spent their days swapping secrets and studying subjects. So when Yasmin did not show up at the bus stop or at school, Jana knew that something was very, very wrong.

"May I please have everyone's attention?" the teacher asked. "I have some unfortunate news—last night an electrical fire broke out in the apartment building where Yasmin Ali and her family live."

"Oh, no!" Jana cried out in a voice that was not her own. Every face in class turned toward her because it wasn't like Jana to **express** such strong **emotions**.

"Yasmin and her family are safe, but the Ali family has lost everything in the fire," said Ms. Lentini.

For the rest of the morning, Jana thought about how she could help Yasmin. At the lunch table, she listed ideas on scraps of notebook paper as other kids played with their handheld game players. Jana shook her head. How could they sit there and play games at a time like this? Other kids argued about which sneakers or jeans were the best. What if you only had the clothes on your back? Finally, she decided to ask the kids at her table to do something for the Ali family.

"Yasmin has two brothers, Luis. Do you have an extra hoodie or some jeans you could donate?" she asked the boy across from her.

Luis didn't even look up from his game player as other boys crowded around him. "Ummmm...could you ask me later? I'm about to beat this level."

donate clothing to the Ali family

give our allowances to the Ali family



Jana turned to the girl sitting next to her. "What about you, Suni? Can you give some of your allowance to help Yasmin and her family?"

"Well, I've sort of been saving for a new bracelet," she answered, looking away.

Jana looked at the string of bracelets that encircled Suni's arm. "But you already have so many," she said softly, wondering why no one seemed to care about Yasmin.

In the hall on the way back to class, she walked behind Trey and Ryan, who were complaining about the book reports they had to finish before they could go to the skate park. It suddenly dawned on Jana how she could make kids think about helping Yasmin and her family. She stayed after school to write and draw, and when she had finished, she showed her work to Ms. Lentini, who smiled and offered to help.

The next morning, photocopies of Jana's drawing and rhyme hung all around the school hallways, classrooms, and cafeteria. A paper finger pointed out from each poster above a rhyme that Jana had written.

# WHAT IF IT WWW HAPPENED TO YOU?

What if a fire took all that you own?
Wouldn't you feel all alone?
What would you do?
Who would you turn to?

Please help the Ali family!
Bring extra clothes, school supplies,
and any other donations to
Ms. Lentini's class.

Jana's poster got everyone's attention. It made students imagine themselves in Yasmin's position. Kids donated any pocket change they had—Suni gave her whole allowance. The next day kids brought hoodies, jeans, t-shirts, and shoes. Luis donated an old game player. Trey and Ryan brought in some books and a skateboard. Soon several boxes in the classroom were full. Jana helped carry them to her teacher's car and rode with her to the shelter where the Alis were staying.

"You've been a good friend to Yasmin, Jana," said Ms. Lentini.

"She would do the same for me," said Jana.

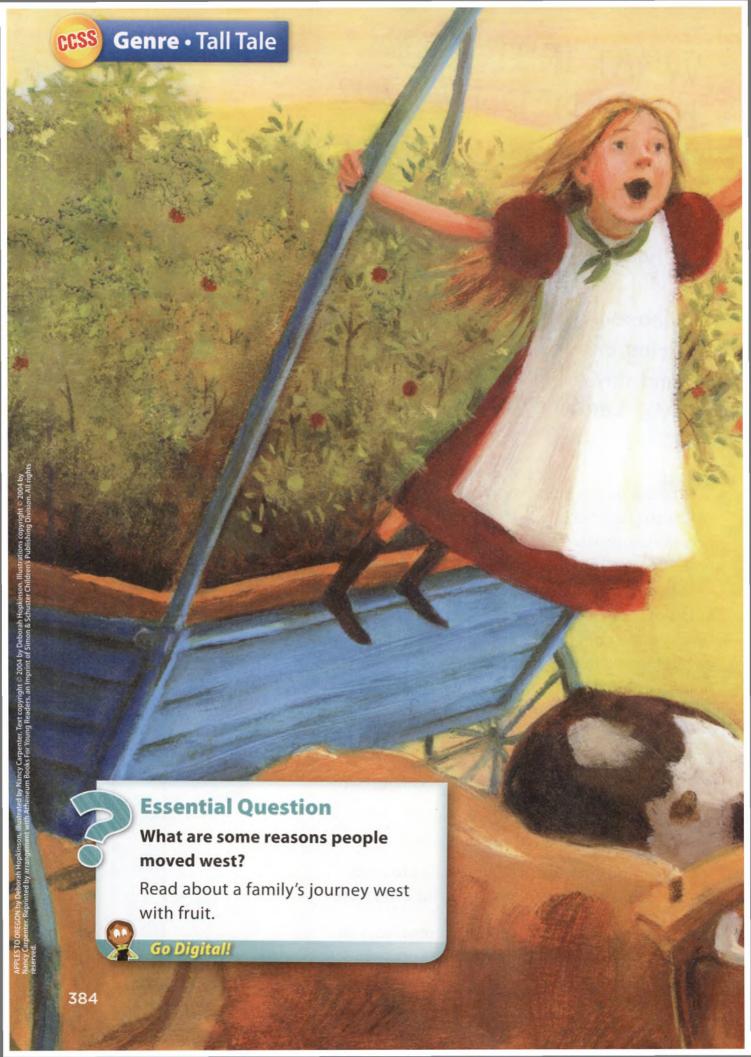
# **Make Connections**

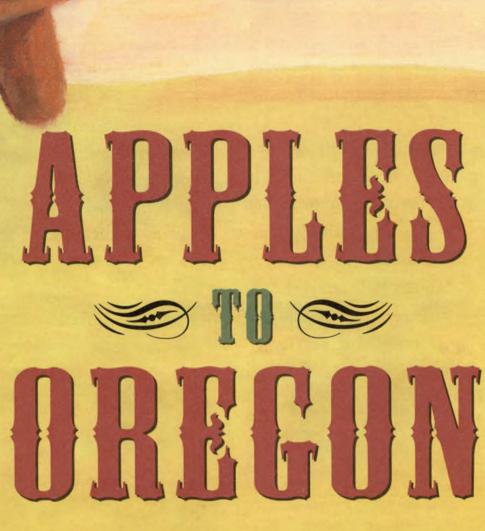


How does Jana get her classmates to help Yasmin and her family? **ESSENTIAL QUESTION** 

Compare and contrast the different ways that people show they care. **TEXT TO TEXT** 







Being the (Slightly) True Narrative of How a Brave Pioneer Father Brought Apples, Peaches, Pears, Plums, Grapes, and Cherries (and Children) Across the Plains

BY DEBORAH HOPKINSON
ILLUSTRATED BY NANCY CARPENTER

My daddy loved growin' apples. And when he got ready to pull up roots and leave Iowa for Oregon, he couldn't bear to leave his apple trees behind.

So Daddy built two of the biggest boxes you could ever hope to see. He set them into a sturdy wagon and shoveled in good, wormy dirt. Then he filled every inch with little plants and trees. Hundreds of them!

Daddy was ready for the most daring adventure in the history of fruit.

"Apples, ho!" he cried.

Along with apples, my daddy took peaches, pears, plums, grapes, and cherries.



Oh, and by the way, he took us along too.

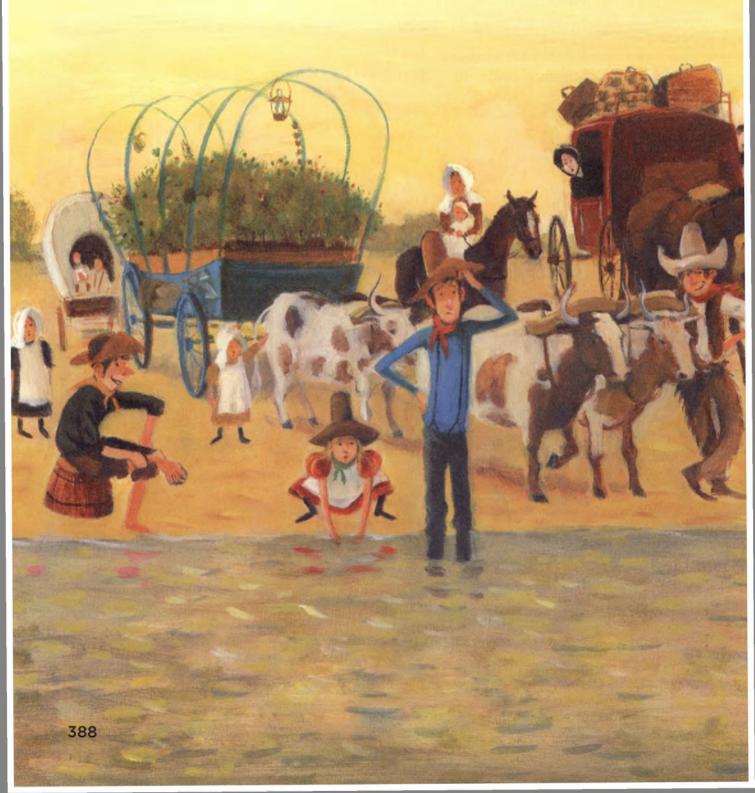
We all had lots to do on the journey. Each morning I helped Momma bake biscuits, while Daddy prepared for another long day on the trail. At night Momma and I tucked in the little ones, then Daddy fiddled lullabies under the stars. Why, I can still hear him crooning to the Gravensteins,

"Hush, little babies, don't you cry
Momma's gonna bake you in an apple pie.
If that apple pie ain't sweet,
Daddy's gonna munch you for his own special treat."



We rolled along just fine till we came to the Platte River. It was wider than Texas, thicker than Momma's muskrat stew, and muddier than a cowboy's toenails. Just looking at it made my insides **shrivel**.

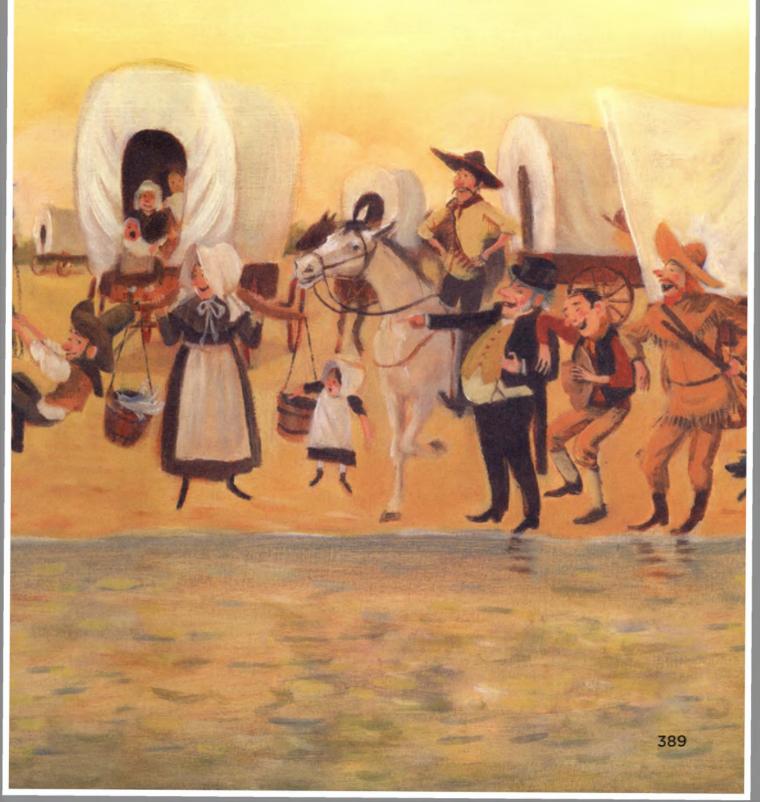
The riverbank was crowded with folks in prairie schooners trying to get up the nerve to cross.



When they saw us and all our little fruit trees fluttering in the breeze, they burst out laughing.

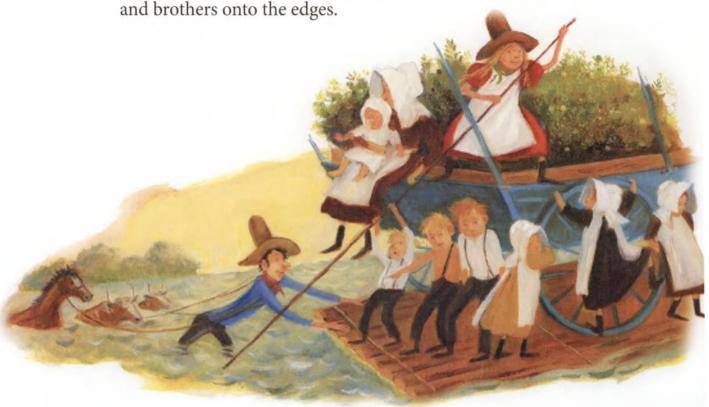
"Those leaves will be brown as dirt before you hit the plains," declared one old geezer.

"Plains?" **scoffed** someone else. "That nursery wagon won't make it halfway across the river."



But Daddy didn't let their talk worry him. He just looked me square in the eye and said, "Delicious, I'm gonna need your help."

Right then and there we built a raft for his tiny trees, then Daddy loaded me and my little sisters and brothers onto the edges



"Now, make sure my precious plants don't **topple** into the water," Daddy warned.

Well, we hadn't gone far when that muddy drink started to pull us down.

"The peaches are plummeting!" my sisters shouted.

"The plums are **plunging**!" boomed my brothers.

"Don't let my babies go belly-up!" howled Daddy.

I had to think quick. "We're too heavy. If we don't go faster, we'll sink. We gotta take our shoes off and kick!"



And so we kicked.

'Course we'd all been raised on apples, and everyone knows young 'uns raised on apples are strong, mighty strong. Before you could say "Johnny Appleseed," we'd kicked ourselves clear to the other shore.

But no sooner had we got every last tree loaded back in the wagon than I spied a foul-looking bunch of clouds stomping round the sun just fit to be tied.

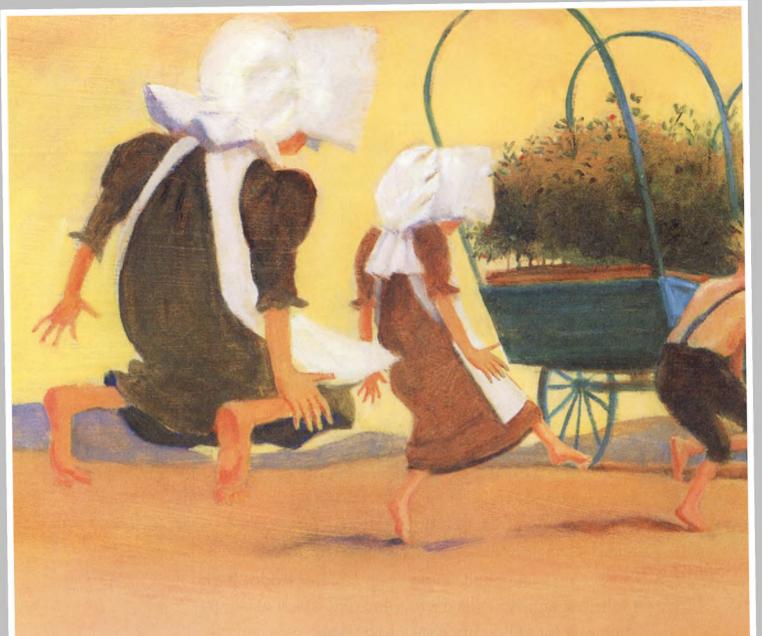
The wind began to throw around everything that wasn't lashed down—our boots, baby Albert's diapers, every pot and pan Momma had, even our own little wagon.

Next, hailstones big as plums came hurtling out of the sky. "Guard the grapes! Protect the peaches!" Daddy howled.

So we all started tearing off our clothes and holding them over Daddy's darlings. Bonnets, petticoats, trousers, hats—even Daddy's drawers!

### STOP AND CHECK

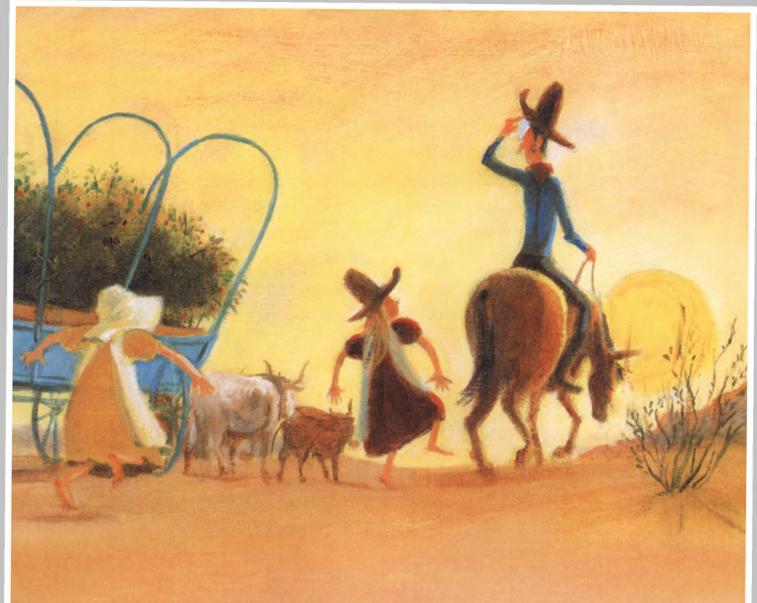
Visualize Which words on page 391 help you visualize the action during the storm?



Whew! At last the storm passed and Daddy's dainties were safe.

After all that excitement it felt good to hit the trail again. But before long we came to an endless sandy desert. Now remember, us young 'uns didn't have our wagon or our boots. In no time our feet were redder than the poison apple the old witch gave to Snow White.

"Delicious, this is our toughest challenge," said Daddy, wiping his brow as I followed him on tippy toes. "We got to find a water hole or my babies are done for."



Sure enough, by noon the fruit trees began to droop. By three their itty-bitty tender leaves were getting crispy. By nightfall Daddy was crying, a handful of dead branches pressed against his heart.

I couldn't bear to see my daddy suffer. So early next morning I took off to look for water. But although I searched and searched, I couldn't even find a splash or a puddle.

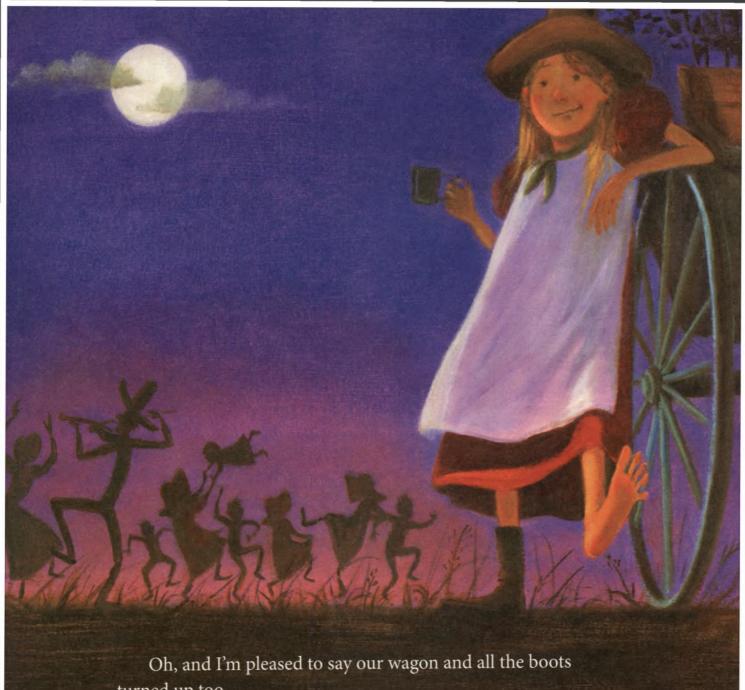
After a while I got so tuckered out, I plopped down under an old sagebrush.

"Ouch!" I yelled, landing on something hard. But when I saw what it was, I whooped for joy. My very own boot! What's more, it still had some water in it from all those melted hailstones.

That was our lucky day, let me tell you. We found every one of Momma's pots and pans spread out across the sand. They all had a few drops of water in them too. Just enough to get Daddy's trees to the next water hole before they all keeled over.

My, that first sip of water sure tasted good, even if I did have to wait my turn behind some Baldwin apples.





turned up too.

All except one.

I reckon that nasty wind blew my left boot clear to the other side of the moon. And if it should happen to drop out of the sky on your head one of these days, I'd sure appreciate your sending it along to me.

Well, we kept on going, past Courthouse Rock and Chimney Rock and Independence Rock and lots of other rocks that didn't have names. We climbed up rocks and down rocks. And at last we reached the Columbia River.

"Just a hundred miles to go," declared Daddy.

But time was running out. Our little trees had almost drowned in the river, got pounded by hailstones, and got withered by drought. How much more could they take?

And now we were set for a showdown with the most ornery varmint of all: Jack Frost.

Oh, I'd already spied him sneaking around our campsite, brushing the cottonwoods with his cold white tongue. But I wasn't about to let him get close to my daddy's apples.

So that night I made a big fire and sat by it, waiting for Jack Frost to show himself. Sure enough, as soon as the moon came up I spotted that ole good-for-nothing slinking across the meadow, heading straight for the Sweet Junes.

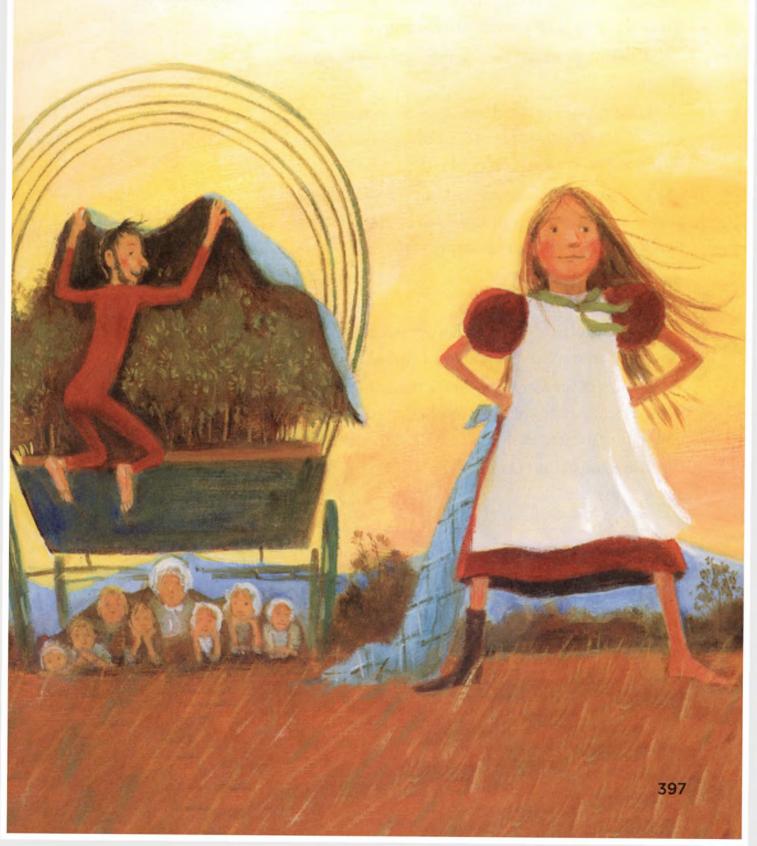
I got ready to fight. Jack Frost came at me, turning the ground so cold my toes went numb. But I didn't give up.

I grabbed a flaming stick and threw it right at him. Before you could say "Peter Piper picked a peck of pretty pippins," that low-down scoundrel was hightailing it out of there, heading straight for Walla Walla, Washington.

#### STOP AND CHECK

Visualize Which words on page 396 help you visualize the showdown between Delicious and Jack Frost? "I'm mighty grateful, Delicious," said Daddy as he scrutinized his sweeties the next morning. "Thanks to you, even the Sweets stayed snug."

"We were nice and cozy too," added Momma, checking the children.



Sure enough, all Daddy's trees survived, just as if they'd come across the plains in a swanky carriage. We floated them on boats down the mighty Columbia to a pretty place near Portland.

Then we planted them in that sweet Oregon dirt at last.

Gold was discovered in California not long after, and thousands of people rushed there to seek their fortunes.

But not us. We already had our fortune. Those apples, peaches, pears, plums, grapes, and cherries made us richer than any **prospector**.

We were happier, too. After all, apples taste a whole lot better than gold.

As for my daddy, he was always sweet as a peach. He and Momma lived happily to a ripe old age.

Daddy never forgot my brave deeds on the trail. Why, as soon as he sold his first bushel of apples, he bought me the prettiest pair of boots you ever saw.

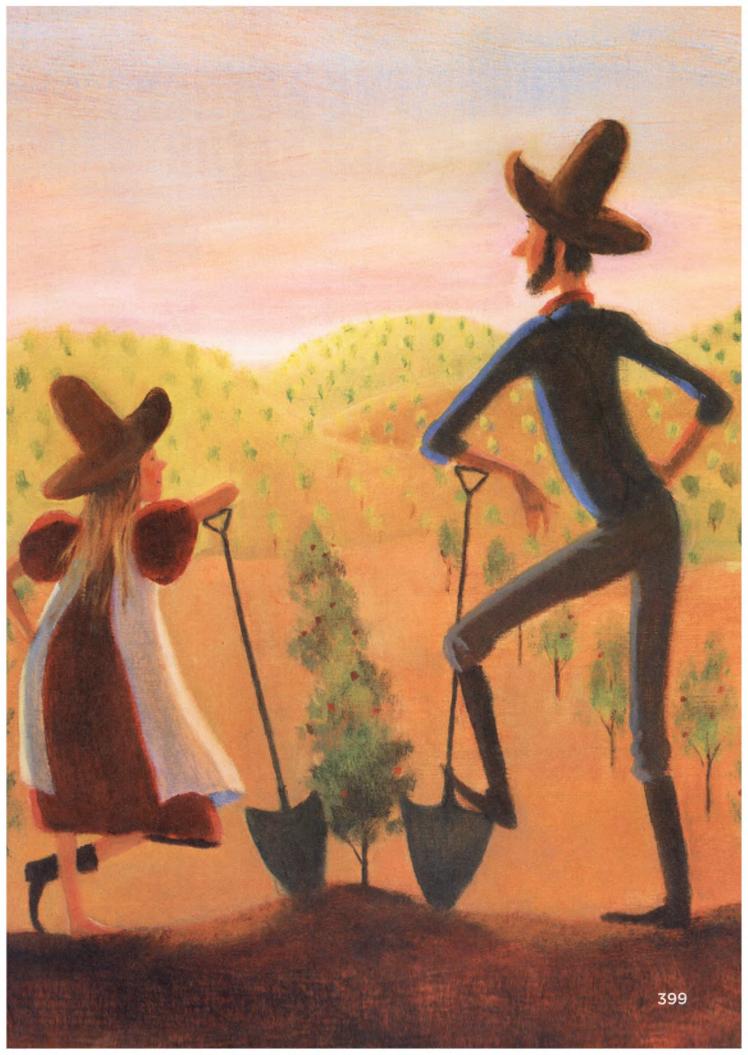
"Delicious," said Daddy, "you'll always be the apple of my eye."



#### STOP AND CHECK

**Reread** How did Daddy reward Delicious for her brave deeds? Reread to find the answer.



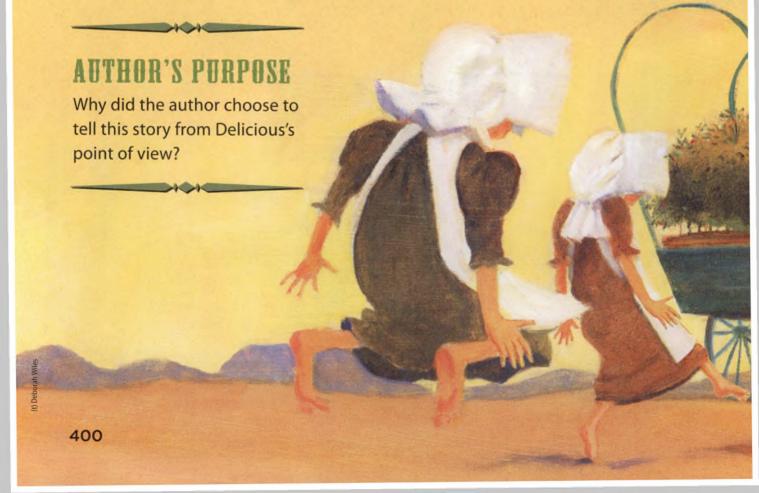


# ABOUT THE AUTHOR AND ILLUSTRATOR

**Deborah Hopkinson** has brought history to life with dozens of books for kids. She particularly enjoys writing historical fiction about people who have done great things but are less well-known. She also visits schools to talk about why history is important. Deborah lives near Portland, Oregon with her husband and two children.



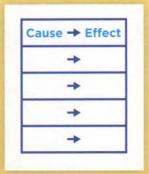
Nancy Carpenter loves to illustrate books for kids. She particularly likes to draw spunky characters who act on their own (and sometimes get into trouble), rather than characters who just do what they are told. Nancy believes that these characters—like Delicious in *Apples to Oregon*—represent how kids are in real life.



#### RESPOND TO READING

#### SUMMARIZE

Use important details to summarize *Apples to Oregon* and describe the journey west for Delicious and her family. Include information from your Cause and Effect Chart.



#### TEXT EVIDENCE

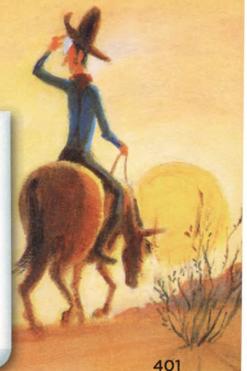
- **1.** What makes *Apples to Oregon* a tall tale? Include details from the story to support your response. **GENRE**
- 2. How did Delicious find her family's belongings after the storm? CAUSE AND EFFECT
- **3.** Before anyone could say "Peter Piper picked a peck of pretty pippins," Delicious fought off Jack Frost's cold spell. Use context clues on page 396 to determine the meaning of the homograph peck. HOMOGRAPHS

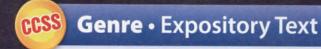
**4.** Write about what made the family's trip to Oregon successful. **WRITE ABOUT READING** 

#### **Make Connections**

Why do Delicious and her family make the journey west despite the obstacles? **ESSENTIAL QUESTION** 

Like Delicious, many Americans traveled west in the 1800s. What are some reasons why people would choose to make such a challenging journey? **TEXT TO WORLD** 





#### **Compare Texts**

Read about the experience of pioneers during the 1800s.

## WESTWARD BOUND

#### SETTLING THE AMERICAN WEST

The great movement west across the United States did not occur all at once. Instead, this migration took place slowly, mainly in the first half of the 19th century. The surge westward began with the Louisiana Purchase in 1803, which doubled the size of the United States. This new land extended from the Mississippi River to the Rocky Mountains. The United States continued to add territories through various agreements and a war with Mexico. As a result, land became available in the West, Southwest, and Northwest. The government encouraged settlement of this land by giving it away or selling it cheaply.

#### THE REASONS WHY

Many Americans were more than willing to pack up and head west. The east coast was crowded due to the arrival of immigrants from Europe. Work was hard to find and did not pay well. Many people had factory jobs. This type of work involved long hours and little money. Large families were forced to live together in small spaces. People believed the West offered an opportunity for a better life. Many liked the idea of owning land and becoming farmers.

People also moved west for freedom. Slavery was still practiced in the United States during this time. Many escaped slaves headed west, where they had a chance to be free. Other groups of people migrated west so that they could practice their religion freely. For example, large groups of Mormons traveled to Utah for this reason.

Finally, the Gold Rush was a major factor in westward migration. The discovery of gold in 1848 resulted in a mad dash to California. Thousands rushed to California to get rich. Unfortunately, many prospectors learned the hard way that gold was not so easy to find.

#### THE JOURNEY WEST

The journey west was a difficult one. People had to travel thousands of miles across unknown land to reach their destinations. Many rode horses or walked. Families used covered wagons pulled by horses or oxen. They could follow a choice of trails already carved by mountain men.

Some chose to take the 900-mile Santa Fe Trail. This led from Missouri down to the southwest territories in New Mexico. It followed the Arkansas River before branching into a mountain route and a desert route. The trail ended in Santa Fe, between the Pecos and Rio Grande Rivers.

Other routes included the 2,000-mile California Trail (from Missouri to California) and the 1,400-mile Mormon Trail (from Illinois to Utah). These trails involved crossings over the Rocky Mountains and the Missouri, Platte, and Green Rivers. The California Trail passed over the dangerous Sierra Nevada Mountains as well.

By far, the most heavily-traveled route was the Oregon Trail. This 2,000-mile journey took six months to complete. Pioneers traveled over prairies, deserts, mountains, and rivers to reach their destination. Along the way, they passed sandstone landforms, such as Chimney Rock. Independence Rock became one of the most famous landmarks on this trail. It represented the halfway point of the long journey.

#### U.S. WESTWARD EXPANSION TRAILS

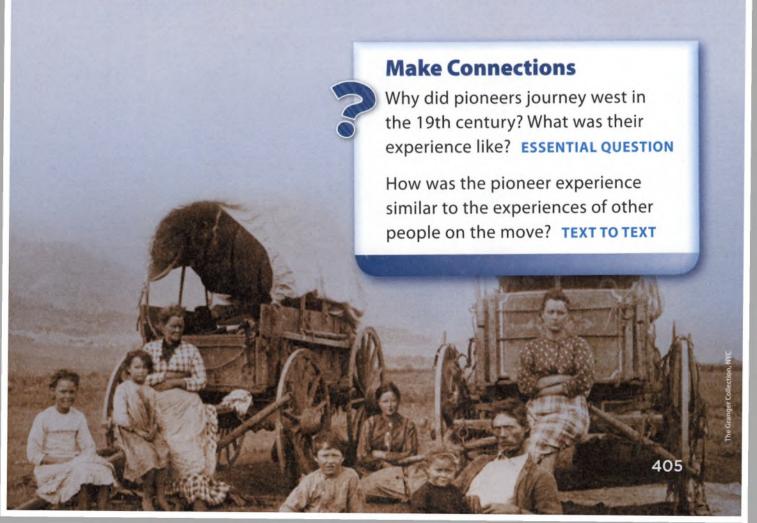


#### THE CHALLENGES AREAD

Weather was always an important consideration for pioneers. Thunderstorms, snow, wind, and drought were all concerns. The dry heat of the desert and lack of water posed real dangers, especially in the Southwest. Pioneers traveling in the Northwest faced cold and snowy mountain passes.

There were other hardships on the trail, too. Pioneers dealt with illness, hunger, exhaustion, and natural dangers, such as snake bites. People had to work together to ensure that they survived. They formed long wagon trains and traveled the trails in large groups. Still, in other parts of the trails, cool rivers and lakes welcomed them, and open prairies provided the food they needed. Some Native Americans showed great kindness to the pioneers and helped them along their way.

The journey to a new land was both dangerous and exciting. It represented the beginning of a new life with new opportunities. For hundreds of thousands of Americans in the 19<sup>th</sup> century, the reward that awaited them was well worth the risks of the journey.





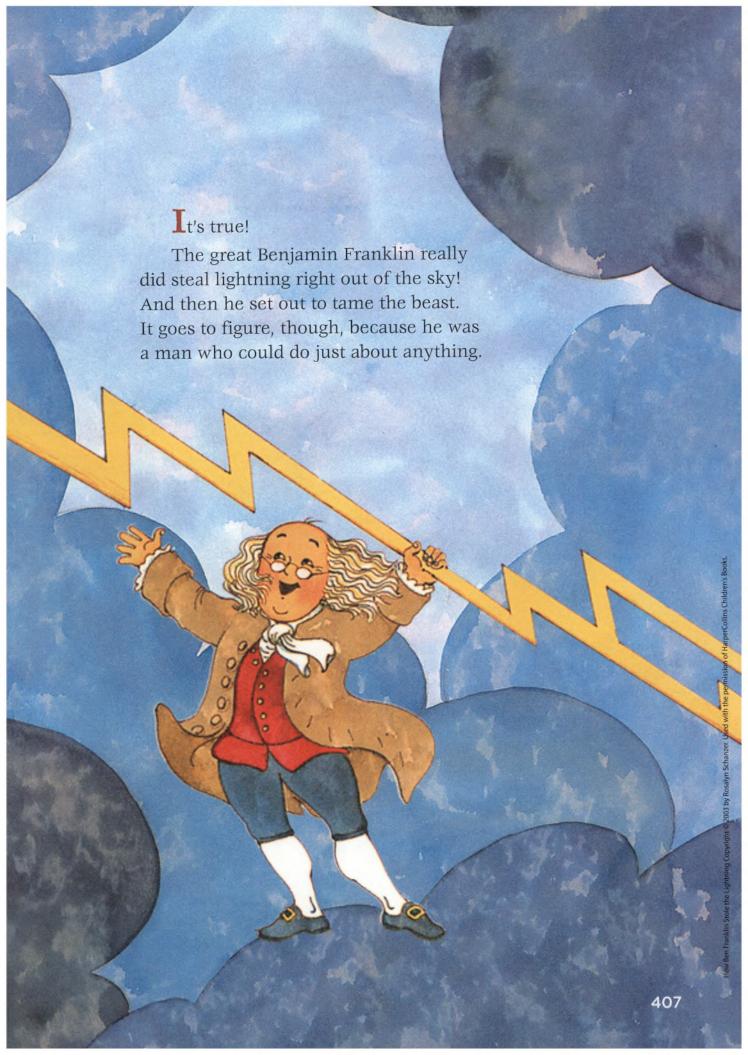
# BEN FRANK STOLE THEM IN CHILING

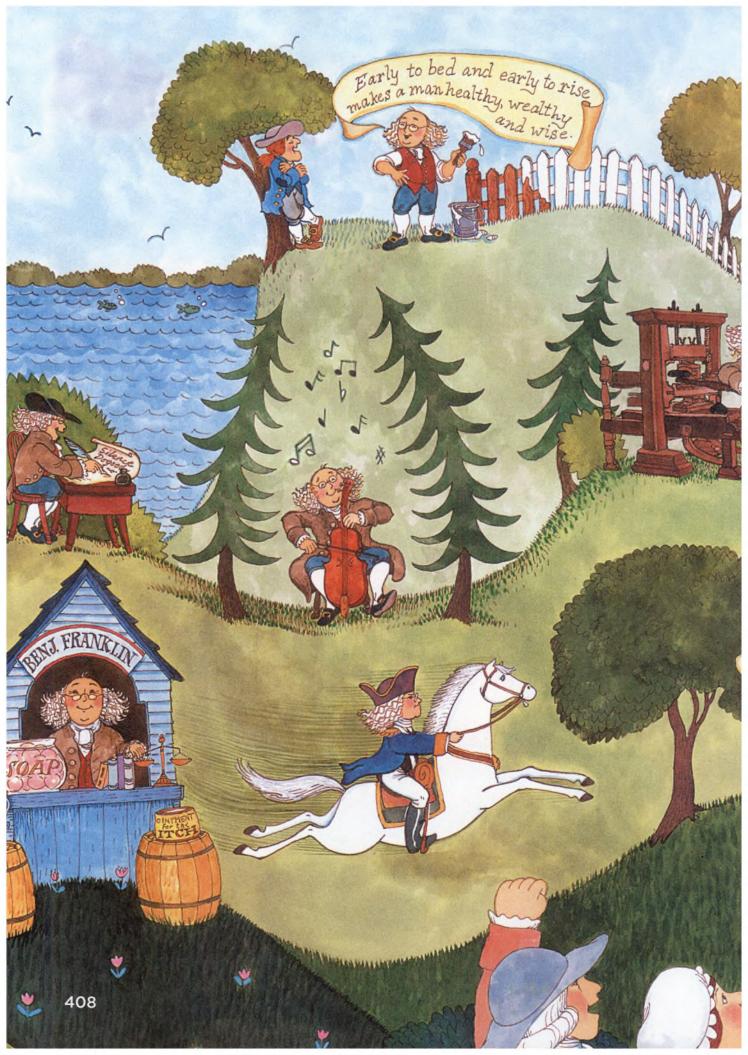
#### **Essential Question**

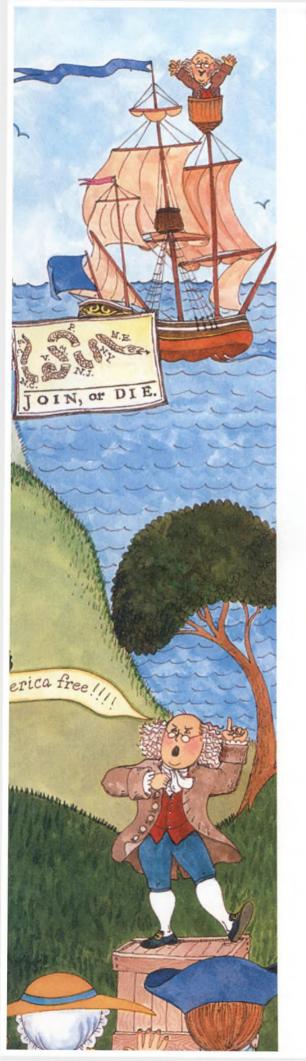
How can inventions solve problems?

Read about a great inventor who solved problems.









Why, Ben Franklin could swim faster, argue better, and write funnier stories than practically anyone in colonial America. He was a musician, a printer, a cartoonist, and a world traveler! What's more, he was a newspaper owner, a shopkeeper, a soldier, and a **politician**. He even helped to write the Declaration of Independence *and* the Constitution of the United States!



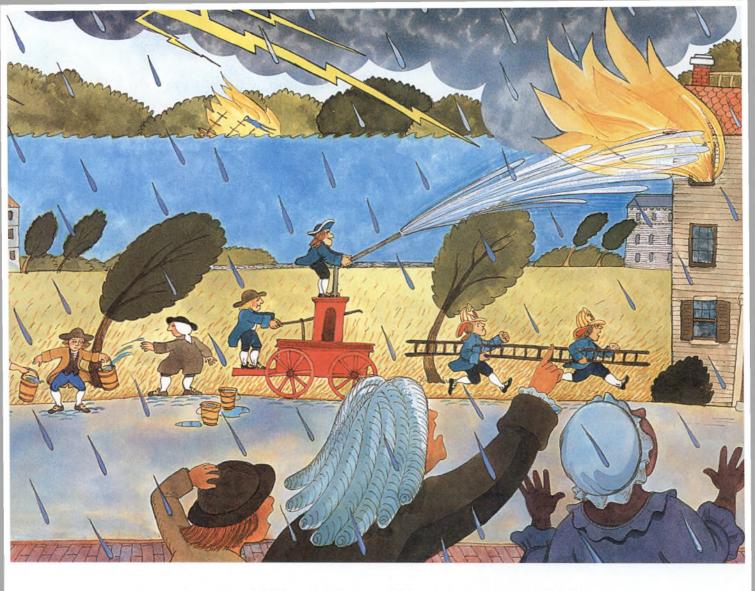
Ben was always coming up with newfangled ways to help folks out, too. He was the guy who started the first lending library in America. His post office was the first to deliver mail straight to people's houses.

He also wrote almanacs that gave **hilarious** advice about life and told people when to plant crops, whether there might be an eclipse, and when the tides would be high or low.

And he helped to start a hospital!

A free academy!

A fire department!



In colonial days, fire could break out at any time. And it was lightning that caused some of the worst fires. Whenever thunderstorms were brewing, they would ring the church bells for all they were worth, but it didn't do anybody a lick of good.

Of course, after Ben stole the lightning, there weren't nearly as many fires for firefighters to put out. "Now, why was that?" I hear you ask. "And how did he steal any lightning in the first place?" Well, it's a long story, but before we get to the answer, here's a hint. One of the things Benjamin Franklin liked to do best was to make inventions.

#### STOP AND CHECK

**Summarize** Use pages 409–410 to summarize Ben Franklin's accomplishments.

Why, Ben was a born inventor. He loved to swim fast, but he wanted to go even faster. So one day when he was a mere lad of eleven, he got some wood and invented swim paddles for his hands and swim fins for his feet. Ben could go faster, all right, but the wood was pretty heavy, and his wrists got plumb worn out.

That's why his second invention was a better way to go fast. He lay on his back, held on to a kite string, and let his kite pull him lickety-split across a big pond. (You might want to remember later on that Ben always did like kites.)

Ben kept right on inventing better ways to do things for the rest of his life.

Take books, for example. Ben read so many books that some of them sat on shelves way up high near the ceiling. So he invented the library chair. If he pulled up the seat, out popped some stairs to help him reach any books on high shelves. And in case climbing stairs made him **dizzy**, he invented a long wooden arm that could grab his books, too.





He also invented an odometer that told how far he had ridden to deliver the mail. And the first clock with a second hand. And he even thought up daylight saving time. Then he invented bifocals so older folks could see up close and far away without changing glasses.

Everybody and his brother and sister just had to find better ways to heat their houses in wintertime. So Ben came up with a Franklin stove that could warm up cold rooms faster and use a lot less wood than old-fashioned stoves and fireplaces.

People all over Europe and America loved Ben's glass armonica. This instrument could spin wet glass bowls to make music that sounded like it came straight from heaven. Mozart and Beethoven wrote music for it, and it was even played at a royal Italian wedding.

But as popular as warmer stoves and glass armonicas were, they aren't anywhere near as celebrated **nowadays** as the invention Ben made after he stole the lightning.

Another hint about Ben's most famous invention is that it helped make life easier for everyone. His scientific ideas were helpful, too, and were often way ahead of their time. For example, he had a lot of ideas about health. He said that exercise and weight lifting help keep folks fit, but they have to work hard enough to sweat if they want to do any good.

He wrote that breathing fresh air and drinking lots of water are good for you. He was the guy who said "an apple a day keeps the doctor away."

And before anyone ever heard of vitamin C, he wrote that oranges, limes, and grapefruit give people healthy gums and skin. Sailors soon got wind of this idea. They began eating so many limes to stop getting sick from scurvy at sea that they became known as limeys.



Didn't the man ever stop to rest? Even when he was outside, Ben kept right on experimenting.

For instance, he often sailed to England and France to do business for America. As he crossed the Atlantic Ocean, he charted the Gulf Stream by taking its temperature. Once sailors knew the route of this fast, warm "river" in the cold ocean, they could travel between America and Europe in a shorter time than ever before.

He was probably the first person to write weather forecasts, too. Once he chased a roaring whirlwind by riding over the hills and forests of Maryland just to find out how it worked.

Ben had an old scientific trick that he liked to show people every chance he got. He used to store some oil inside a bamboo walking stick, and whenever he poured a few drops onto angry waves in a pond or lake, the water became smooth as glass!





Meanwhile, over in Europe, people called "electricians" had started doing some tricks of their own. One trick was to raise a boy up near the ceiling with a bunch of silk cords, rub his feet with a glass "electric tube," and make sparks shoot out of his hands and face.

Another mean trick made the king of France laugh so hard he could hardly stop. His court electrician had run an electric charge through 180 soldiers of the guard, and they jerked to attention faster than they ever had in their entire lives.

But although people were doing lots of tricks with electricity, nobody had a clue about why or how it worked. So Benjamin Franklin decided to find out. He asked a British friend to send him an electric tube so that he could do some **experiments**.

In one experiment, he made a cork "electric spider" with thread for legs. It kept leaping back and forth between a wire and an electric tube just like it was alive.

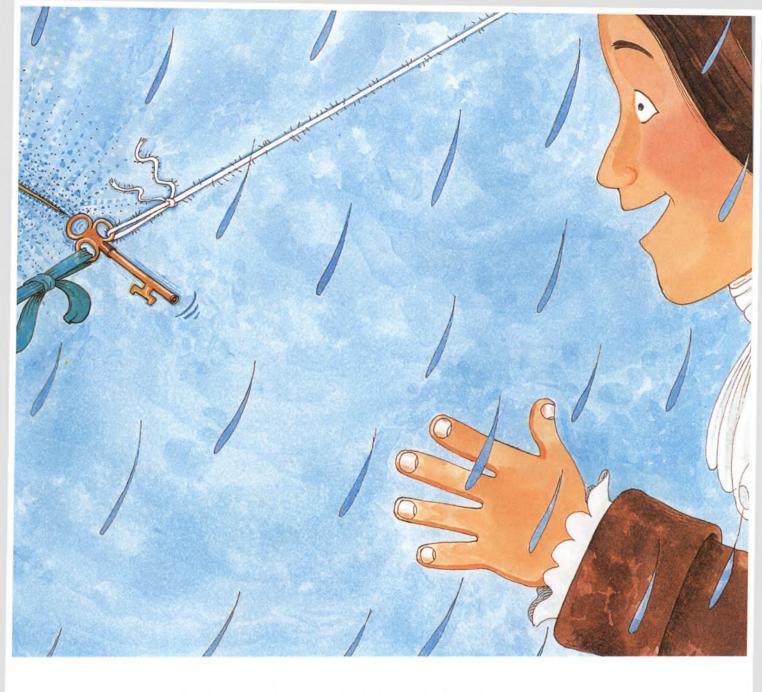
Another time he asked a lady and gentleman to stand on some wax. One held an electric tube, the other held a wire, and when they tried to kiss, they got shocked by all the sparks shooting between their lips.

Ben even figured out how to light up a picture of a king in a golden frame. Anyone trying to remove the king's gold paper crown was in for a shock!



Doing all these tricks gave Ben his idea for stealing lightning out of the sky. He believed that lightning was nothing more nor less than pure electricity. Now he set out to prove it.

First he made a silk kite with a wire on top to attract some lightning. Next he added a kite string, tied a key to the bottom, and knotted a silk ribbon below the key. Ben and his son William stood out of the rain inside the doorway of a shed on the side of a field. To keep from getting shocked, Ben held on to the dry silk ribbon. Then he flew his kite straight up toward a big rain cloud.



For the longest time, nothing happened.

Just as Ben and William were about to give up, the hair on that wet kite string began to rise up and stand at attention. Ben put his knuckle near the key, and YIKES!!!! Out jumped a bright spark of **genuine** electricity!

Real lightning had traveled all the way down that kite string! Ben had stolen electric fire out of the heavens and proven that he was right.

(Of course, now we know that if the storm had been any stronger, the great inventor would have been toast.)



Finally! Here's the part of the story where Ben's practice from thinking up all those inventions came in so handy. Way back then, you remember, lightning was always setting fire to ships, houses, and church spires. Even the best fire departments couldn't keep entire towns from going up in smoke. So Ben decided to make his most famous invention of all—the lightning rod!



The whole idea was to pull lightning safely out of the sky before it could do any **mischief**. Ben showed people how to put a pointed iron rod on the tip-top of a roof or ship's mast and connect it to a wire leading all the way down under the ground or into water. Now the lightning could follow a safe path without burning up a thing.

#### STOP AND CHECK

Summarize How did Ben Franklin steal lightning from the sky? Summarize the information on pages 418 and 419.

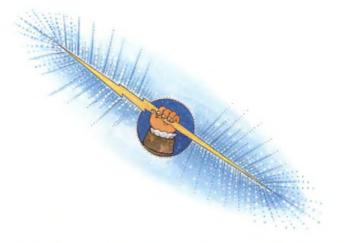




This simple but brilliant invention worked beautifully. It saved more lives than anyone can count and made Ben Franklin a great hero.

Scientists from around the world lined up to give Ben medals and awards. But during his long life, he became much more than the master of lightning. Why, when America fought against Great Britain for the right to become a free nation, Ben convinced France to come help win the war, and when it was over, he helped convince Great Britain to sign the peace. He had helped in so many ways that the people of France honored him with a beautiful medallion. It says "He snatched the lightning from heaven and the scepter from tyrants."

And he did.



#### STOP AND CHECK

Reread Why was Ben Franklin presented with so many medals and awards? Reread to find the answer.

#### ABOUT ROSALYN SCHANZER



Just like Ben Franklin, **Rosalyn Schanzer** is a person with many interests. In addition to being an artist, a photographer, and a writer, Schanzer enjoys swimming. Growing up, Schanzer loved to draw pictures. She studied art in college, and her first job was illustrating

greeting cards. Then she became an illustrator for children's books and magazines. Her interest in famous people and events in history led her to take on the challenge of becoming a writer. Now, she follows her interests by illustrating the books she writes.

#### Author's Purpose

Ben Franklin's invention of the lightning rod was the main focus of this selection. Why did the author choose to point out many of Franklin's other inventions?



#### RESPOND TO READING

#### Summarize •

Summarize *How Ben Franklin Stole the Lightning*. Information from your Problem and Solution Chart may help you.

Problem	Solution

#### Text Evidence

- How do you know that How Ben Franklin Stole the Lightning is a biography? Point out examples from the text to support your response. GENRE
- 2. Name three of Ben's inventions. What problem did each invention solve? PROBLEM AND SOLUTION
- **3.** What is the meaning of *odometer* on page 412? Explain how knowing the Greek root *metron* (or "measure") helps you figure out what the word means. **GREEK ROOTS**
- **4.** Write about the qualities that made Ben Franklin a great problem-solver. **WRITE ABOUT READING**

#### **Make Connections**



How did the invention of the lightning rod solve a problem? **ESSENTIAL QUESTION** 

Think about some modern inventions. Describe an invention that solves a problem in our world today. TEXT TO WORLD



#### **Compare Texts**

Read about the different kinds of energy.

# Energy is Everywherel

Thunder and lightning forewarn of an impending storm. Massive gray clouds roll in, hovering over the neighborhood. A heavy rain falls from the sky, flooding the streets. High winds push and pull at the trees. A large branch snaps off and falls onto the power lines below. Suddenly, we cannot turn on lights, cook, watch TV, use computers, or do many of the daily tasks we take for granted. Electricity—the particles of energy that traveled down Ben Franklin's kite string during his most famous experiment—is essential to our lives.

Nowadays we depend on electricity in ways that people in the past could never have imagined. We also understand more about it. Or do we? Did you know that the first step in understanding electricity is understanding energy? And did you know that energy is everywhere?

#### **Kinds of Energy**

Scientists define energy as the ability to apply force.

So, energy is used when someone or something flies, falls, runs, beeps, moves, or cooks. But energy is not always that obvious because there are many different kinds. Chemical energy is stored in things such as petroleum, coal, wood—even food. Mechanical energy is stored in objects under tension such as springs on trampolines. Mechanical energy may also be energy in motion, such as the energy of wind blowing down branches during a storm.

The sun is a source of light energy. Sunlight makes life possible. Plants transform the sun's light energy into chemical energy, or food. You can think about it this way—when you eat oatmeal for breakfast and then run

to the bus stop, your motion energy is a result of sunlight helping oat plants to grow.

Another kind of energy is thermal energy, or heat. Wood burned in a stove or fireplace changes the chemical energy in the wood into thermal energy.

Energy also lies in sound. Sound energy occurs when air particles move and vibrate. When you pluck guitar strings, the mechanical energy of your fingers and the vibrating strings is transformed into sound energy.

Sunlight and sound are just two of the many different kinds of energy.





#### **Electrical Energy**

Electrical energy is an energy carrier. That means it is created from certain forms of energy and can then produce other forms of energy. For example, when you dry your hair after a shower, you plug in a hair dryer and turn it on. That may seem simple, but many things happen before your hair dries. First, the electricity for the hair dryer comes from a power plant, which is the energy source. This energy source transforms the chemical energy of oil, coal, or natural gas into electric charges. These electric charges, or electricity, then follow wires to the socket and into your hair dryer, creating a current. So when you flip a switch to turn the hair dryer on, that action provides a path for the electrical current. It also transforms electrical energy into thermal and mechanical energy—the heat and blowing air.

#### **Power Is Enlightening**

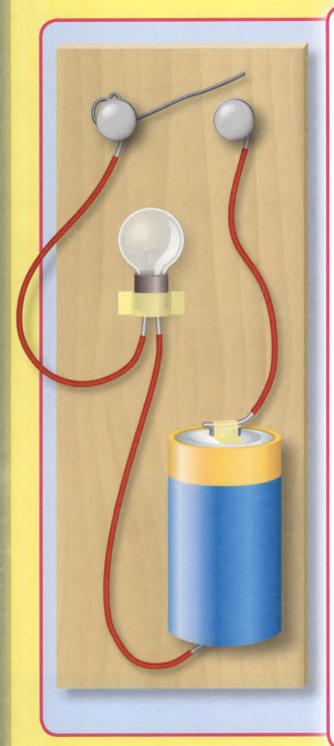
Learning about electricity is important. Learning to control electricity puts it to work. By creating a simple

circuit, you can get a better sense of how electrical energy works.

Energy is all around you! The next time a storm knocks out the power to your home, explain to your family what happened as you sit with them by candlelight.



This hair dryer blows heat and air because it is plugged into an energy source. When the hair dryer is turned on, a path is created, allowing electricity to travel from the power plant into your home.



#### Make a Circuit

See for yourself how energy is transformed by building a simple electrical circuit. A battery stores chemical energy. Follow the **procedure** to transform chemical energy into electrical energy and then light energy. Remember to use only the provided battery. Do not use wall sockets. Have an adult supervise the experiment.

#### What You Need

- · A flashlight bulb
- · A battery (size D)
- · Three 6-inch pieces of stripped wire
- Tape
- · A straightened paper clip
- Two thumbtacks
- · A block of wood

#### What You Do

- · Push one thumbtack into the wood.
- Wrap one end of the paper clip around the second thumbtack and push it into the wood. Make sure the straightened end of the paper clip can touch the first thumbtack. That's the switch.
- · Connect one wire to each thumbtack.
- · Tape the bulb to one of the wires.
- Connect the remaining wire to the bulb with tape.
- Place the battery in between the two wires and use tape to connect one to either end of the battery.

When you connect the paper clip with the thumbtack, you complete the electrical circuit. The bulb will light.

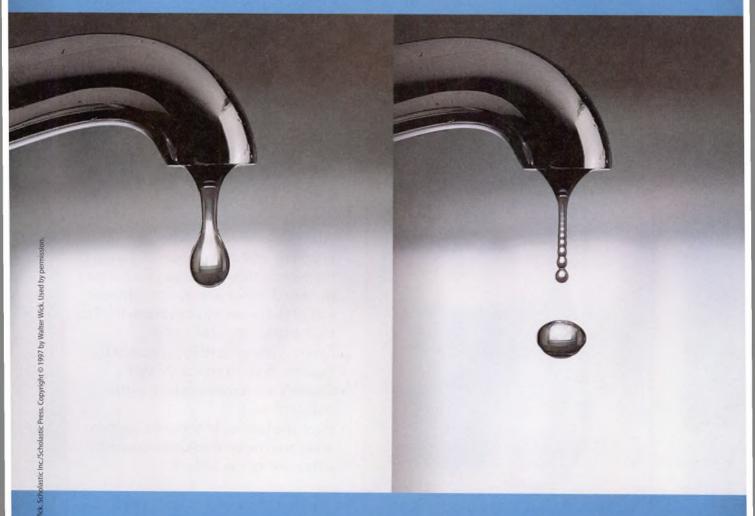
#### **Make Connections**



Explain how "energy is everywhere."

ESSENTIAL QUESTION

Why are inventions important? TEXT TO TEXT



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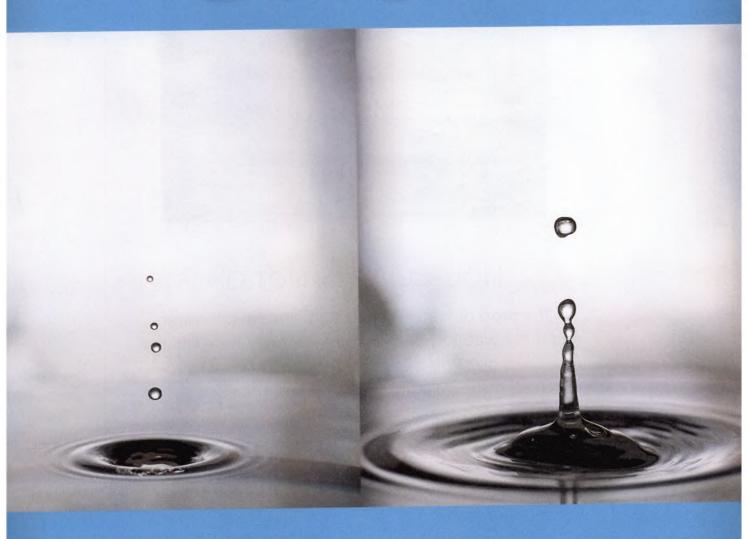
#### **Essential Question**

What can you discover when you look at something closely?

Read about water molecules and how they change.



### A DROP



## OF WATER

BY WALTER WICK



#### MOLECULES IN MOTION

If a drop of water is added to a jar of still water, and if the water in the jar is not stirred, where will the new drop go? Will it stay near the top or sink to the bottom? A simple experiment reveals the answer.

A drop of blue water enters a jar of clear water. It begins to split up. Parts of the drop sink and swirl in different directions. At last, the colored drop breaks into so many parts that it has become part of the whole jar of water.

The molecules in a liquid are moving all the time, pushing and pulling each other, attaching to and breaking away from neighboring molecules. The molecules in the blue drop break apart because they are pushed and pulled all over the jar by other water molecules. The energy that keeps the molecules moving is heat. This heat can come from the sun or the room in which the jar is standing. Without heat, water would not remain a liquid.



#### ICE

When water cools, it loses energy.
The molecules slow down and eventually stop swirling and pushing each other.
When water freezes, the molecules lock together, forming a rigid structure.
A drop of blue water no longer moves.
The water has changed from a liquid to a solid—ice.

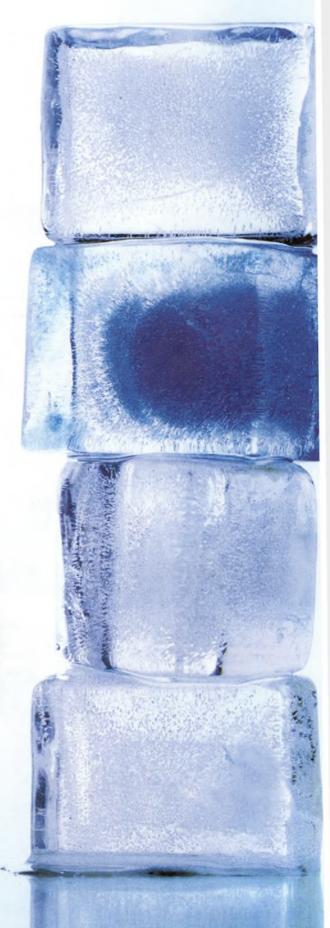
Ice is a solid, like metal or rock. But, unlike metal or rock, ice is solid only at temperatures of 32 degrees Fahrenheit (O degrees Celsius) or colder. At room temperature, ice melts, changing back to a liquid.





#### STOP AND CHECK

**Summarize** Explain how ice forms. Include text details.





#### WATER VAPOR

Water always seems to be disappearing: from wet clothes on a line, from puddles on the ground, and from dishes on a draining board. We say it has dried up, but where has the water gone?

Just as water can be a liquid or solid, it can also be a gas. The water from the wet dishes *evaporates*. That is, it turns into a gas called *water vapor*. Molecule by molecule, the water from the drops on the wet dishes drifts invisibly into the air.

Heating water in a kettle speeds evaporation. Heat from the stove makes the water turn to steam, which is extremely hot water vapor. When the steam hits the cooler air, tiny droplets form, and we see a cloud just beyond the kettle's spout. Almost immediately, the droplets evaporate and change back to invisible vapor. Then the water molecules **mingle** with other molecules that make up air.



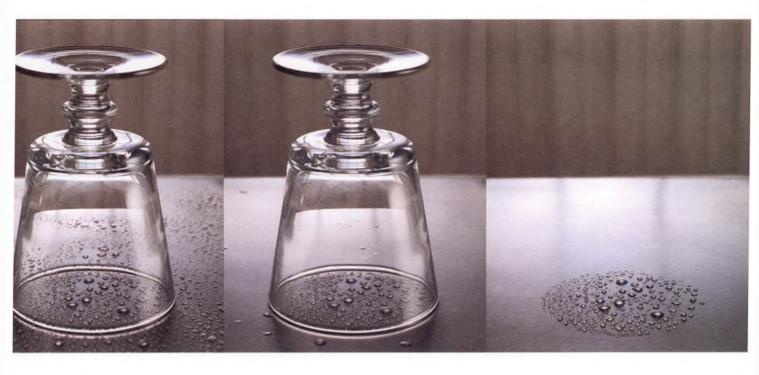


#### CONDENSATION

The air around us always contains some water vapor. Water molecules move rapidly through the air and hit everything in their paths. The molecules bounce off most warm surfaces, but stick to surfaces that are cold. In these photographs, molecules of water vapor stick to the coldest part of the glass. Gradually, droplets form on the glass as the molecules accumulate. Water vapor changes from a gas to a liquid; that is, it *condenses*.

#### STOP AND CHECK

**Summarize** How does condensation form? Summarize using details from the text.



### EVAPORATION VERSUS CONDENSATION

In the photographs above, why do the water drops outside this glass disappear, while the drops inside remain?

Outside the glass, the water evaporates and spreads throughout the room as vapor. In time, the drops disappear. Inside the glass, water also evaporates, but the vapor is trapped. The air inside the glass becomes **humid**, which means that the air is full of water vapor. And that vapor condenses back onto the water drops as quickly as water molecules can evaporate. Therefore, the drops remain.

Remove the glass, and the vapor expands throughout the room. Evaporation continues, but condensation slows down. In time, the uncovered drops will disappear.

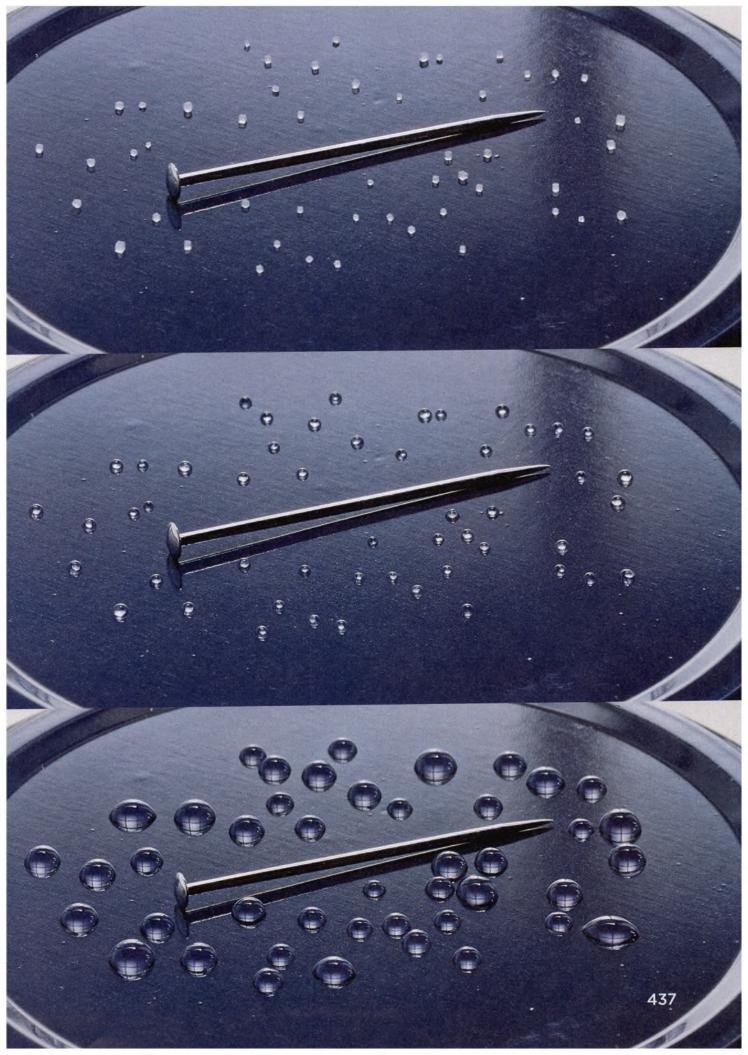
#### HOW CLOUDS FORM

Clouds are made of tiny water droplets, too small to be seen without a microscope. If a cloud droplet is to form, water vapor must first condense on a particle of dust. Carried by wind, these dust particles are often bits of pollen, soot, soil, or salt.

This experiment shows how cloud droplets form.
Salt is placed on a jar lid above a dish of water. A glass cover traps the water vapor. In minutes, the vapor condenses on the salt and coats each grain with water. Hours later, the salt **dissolves** in the water drops.

Clouds form when water evaporates from the earth's surface and rises into colder air. There, the vapor condenses on cold, airborne particles. More and more molecules cling to the particles until droplets form. It takes about a million cloud droplets to make one raindrop. Rain does not taste salty or appear **gritty** because the particles that allow clouds to form are usually too small to be noticed in raindrops.





#### **SNOWFLAKES**

This snowflake is shown 60 times its actual size. The angles between the six major branches are repeated over and over again in many of the smaller details of this amazing structure. How can such an intricate object form in the sky?

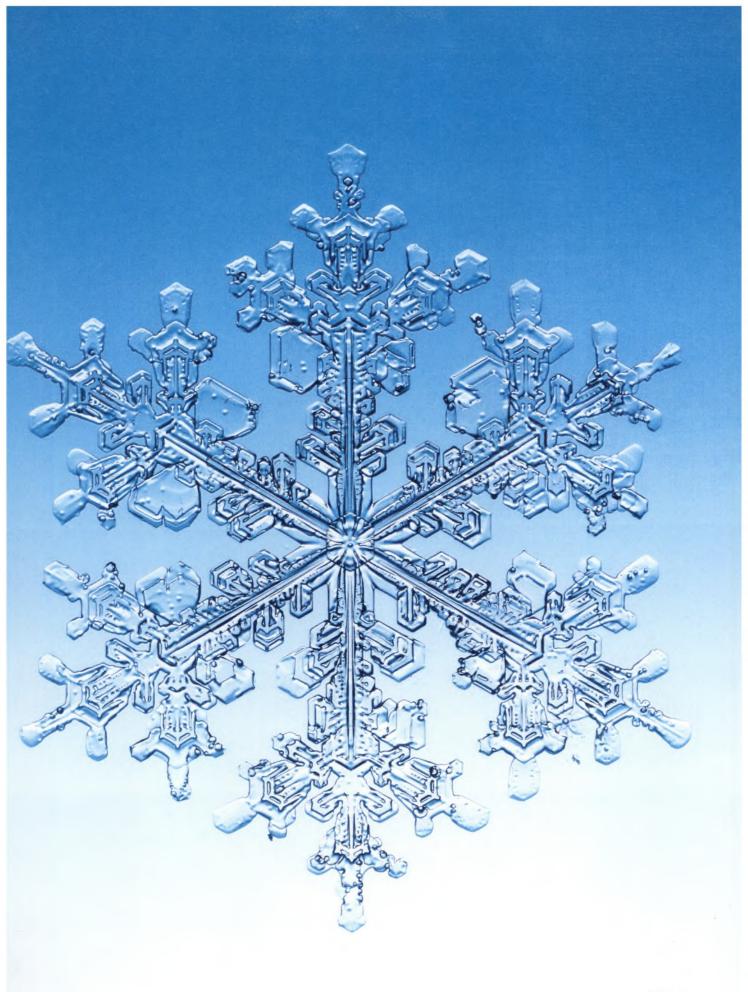
Cloud droplets form when water vapor condenses on particles. But in very cold air, water molecules that **cling** to particles form tiny ice crystals. As more water molecules from the air freeze onto the crystal, they join at angles that allow a six-sided structure to form. If the crystal grows large enough, it will fall to the ground as a snowflake.

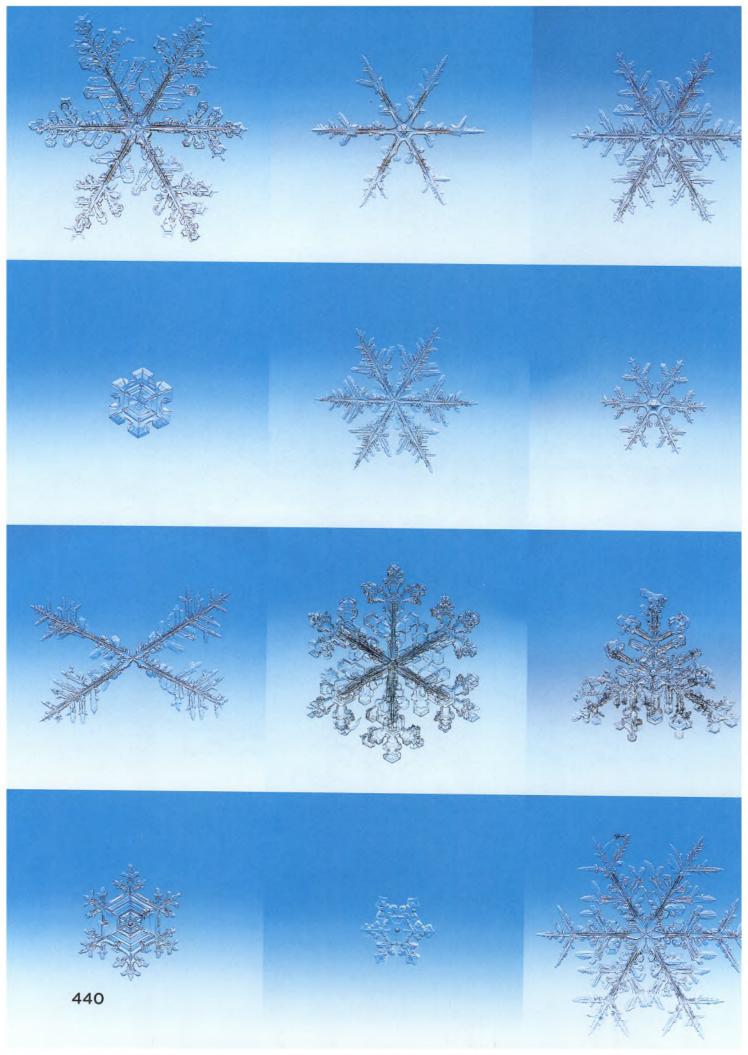
Clouds that produce snow often contain both ice crystals and liquid droplets. At the center of this snowflake is a cloud droplet that froze, allowing the snowflake to form around it. Scattered throughout are other cloud droplets that have frozen onto the snowflake as it fell through the cloud.

Sometimes snow mixes with pellets of sleet, which are frozen raindrops like the ones shown below. By contrast, snowflakes are ice crystals that form when water vapor changes directly from a gas to a solid.



Sleet, 15 times actual size





#### **ENDLESS VARIETY**

Many ice crystals grow into shapes that are just tiny slivers, rods, or clumps of ice. Of these, the underlying six-sided structure may not always be visible. But when weather conditions are just right, the crystals will grow into an astonishing variety of elaborate six-sided designs.

All the snowflakes on these two pages were photographed on the same day. All share the same angles, but vary in design. One has six branches of unequal length, giving the appearance of a three-sided snowflake. Another snowflake has only four branches. Apparently, two of its branches didn't grow. Odd variations like these are **typical**. Because different conditions of humidity, wind, and temperature affected the growth of each snowflake as it fell, each design holds secrets of its unique journey to earth.

When a snowflake melts, its intricate design is lost forever in a drop of water. But a snowflake can vanish in another way. It can change directly from ice to vapor. The sequence below shows a single snowflake as it gradually disappears.





Snowflakes, actual size



#### FROST AND DEW

On some days, when the air is humid, a sudden drop in temperature during the night will cause water vapor to condense on cold surfaces. By morning, the landscape is covered in sparkling drops of water—dew. If temperatures fall below freezing, the cold-weather relative of dew appears—frost.

On windows, frost forms along tiny scratches and other imperfections in the glass. As with snowflakes, frost is the result of water vapor changing from a gas to a solid. That's why the angular structure of ice crystals is evident in the fern-like patterns of frost.

When dew forms, a short walk through the grass will soak your feet. On spider webs, dewdrops appear like glistening pearls. In the photograph

above, we can see how water reflects and bends light; an upside-down landscape appears in each drop of water.

#### STOP AND CHECK

Ask and Answer Questions
How does frost form? Go back
to the text to find the answer.



#### WATER AND LIGHT

If you look carefully at this beam of light, you'll see the mysterious way in which light interacts with water.

Some of the light is reflected, which means that it bounces off the surface of the water. But some of the light passes into the water. As the light enters the water, molecules bend the light, or *refract* it. The bent rays of white light are transformed into all the colors of the rainbow.

How is this possible? White light is made up of waves of many different sizes, or *wavelengths*. The shortest wavelength, which we see as violet, bends the most. Red, the longest wavelength, bends the least. All the other colors fall in between.

Sun shining on spray from a garden hose creates a

rainbow. The spray produces drops of water that bend the light and flash bright colors when seen from the correct angle. Natural rainbows work exactly the same way. The sun must be behind you and low in the sky. The arc of the rainbow is caused by the sun shining on billions of spherical raindrops that fill the sky.





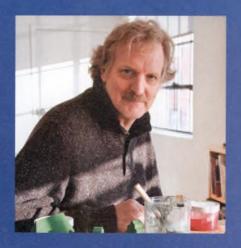


#### THE WATER CYCLE

The sun's heat and the earth's gravity keep water in constant motion. Water evaporates from puddles, ponds, lakes, and oceans; from plants and trees; and even from your skin. Water vapor moves invisibly through the air, but it is always ready to condense on a cool blade of grass or the surface of a pond. Massive clouds form as vapor condenses on tiny particles of dust in the air. Then, and only then, can water fall from the sky as rain, replenishing lakes, rivers, and oceans. Hard to predict, impossible to control, water cycles around the earth.

And water is precious. Without it, not a single living thing could survive. No plants would grow, not even one blade of grass. No animals would roam the earth, not even a spider. But somewhere in the world right now, snow drifts on a mountaintop and rain falls in a valley. And all around us, we are reminded of the never ending journey of a drop of water.

### About Walter Wick



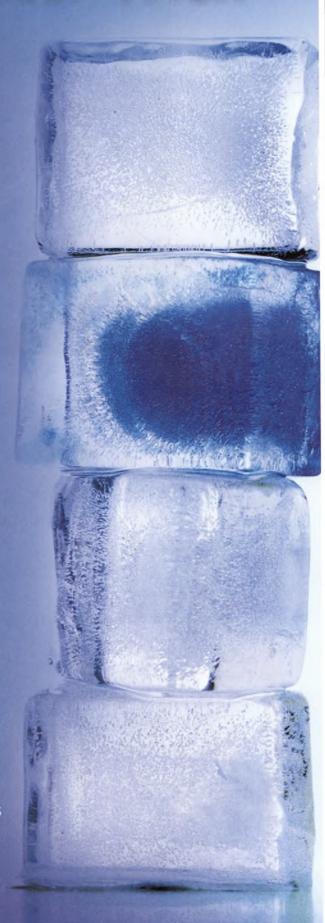
Walter Wick is a children's author and photographer. He is best known for the I Spy book series, which he created with author Jean Marzollo.

Walter says he tries to "make the experience of looking at my creations as exciting to others as it is to me." As a result, his photos usually end up fresh and different. Walter spends a lot of time setting up photos that have many parts. His very detailed photos serve to introduce kids to complicated things, such as water molecules!

The photos in Walter's science books explain topics in unexpected, unusual ways. Most readers would agree that in Walter's books, the photos matter at least as much as the words.

#### **AUTHOR'S PURPOSE**

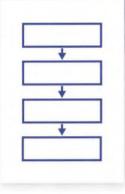
How do Walter Wick's highly technical photos help you understand difficult concepts?



## Respond to Reading

#### **SUMMARIZE**

Use the most important details from *A Drop of Water* to summarize the selection. Information from your Sequence Chart may help you.





#### TEXT EVIDENCE

- How do you know that A Drop of Water is an expository text? GENRE
- 2. What happens after water evaporates and rises into the sky? Explain using details from the selection. SEQUENCE
- **3.** Find the word *accumulate* on page 434. Use context clues to figure out its meaning and to find an antonym. **ANTONYMS**
- 4. Write an explanation of how a rainbow is created. Use details from the selection in your response. WRITE ABOUT READING

#### **Make Connections**



What are some of the various ways that water molecules can change? **ESSENTIAL QUESTION** 

How can viewing things up close change the way people think about the world? **TEXT TO WORLD** 

#### **Compare Texts**

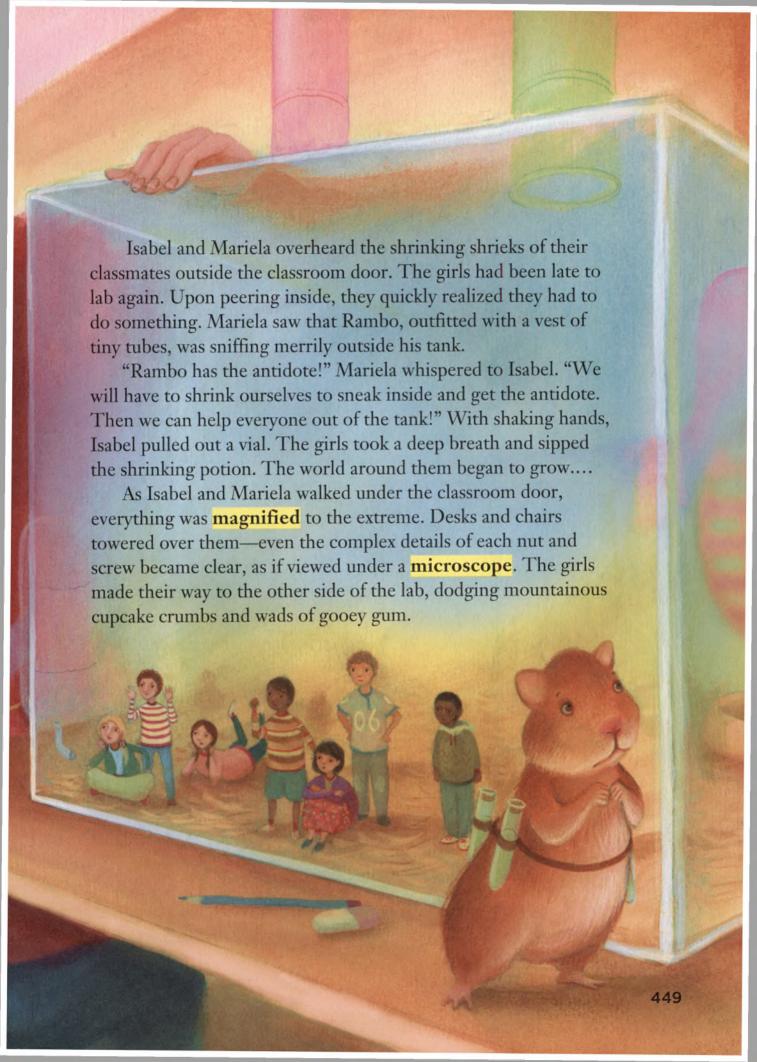
Read about two girls who gain a new perspective as they attempt to save their classmates.

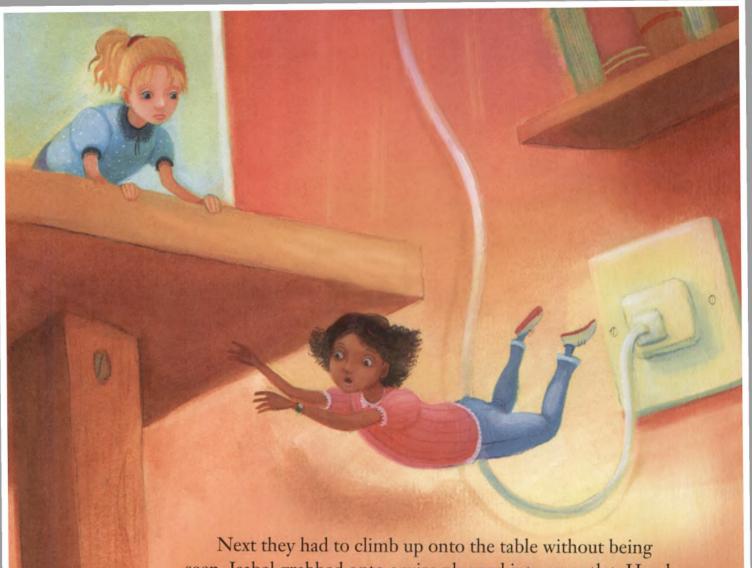
## The Incredible Shrinking Porion

It began as a simple science project.

It was only one week ago that Isabel, Mariela, and Hector were working on a shrinking potion that would amaze everyone at the science fair. Mariela and Isabel had perfected the potion, but it was Hector who had created the antidote. Since his discovery, Hector had become less interested in winning the science fair prize and more interested in how this experiment could increase his popularity. His short stature made him practically invisible to everyone at Washington Elementary School.

That wasn't the case anymore—now the entire class was looking up at Hector. He had come to science lab bearing "special" cupcakes, which made it easy for him to shrink the entire class, including his science teacher, Ms. Sampson. Hector smirked as he placed his miniature classmates inside the tank of Rambo, the class pet.



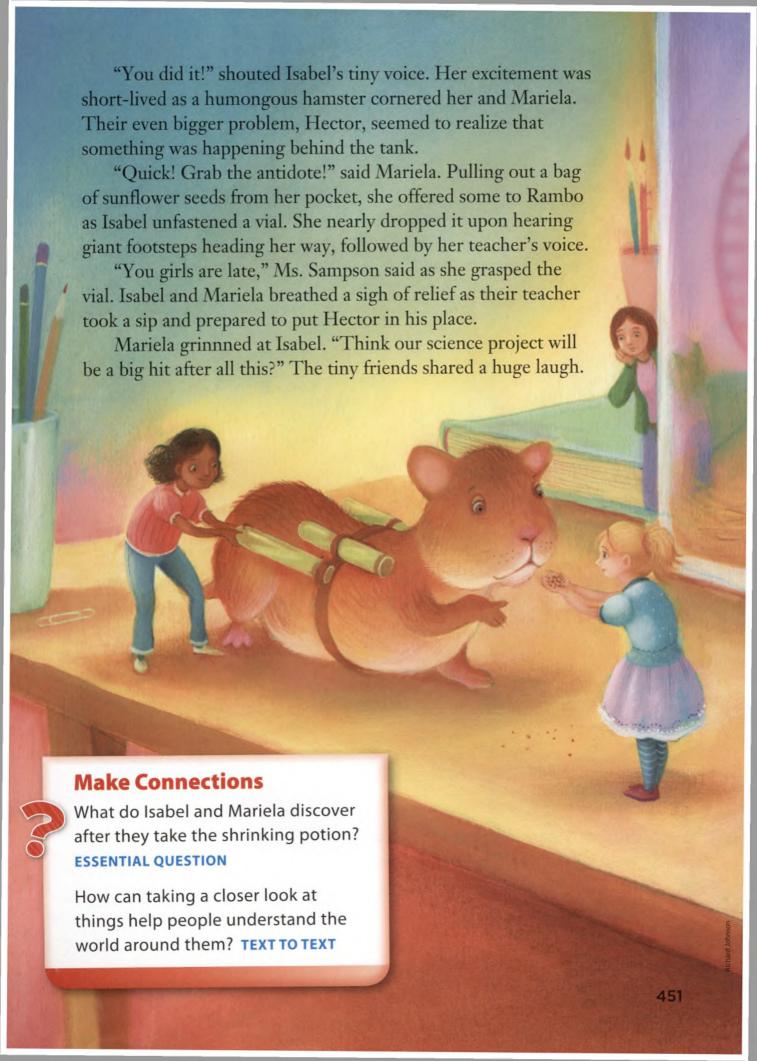


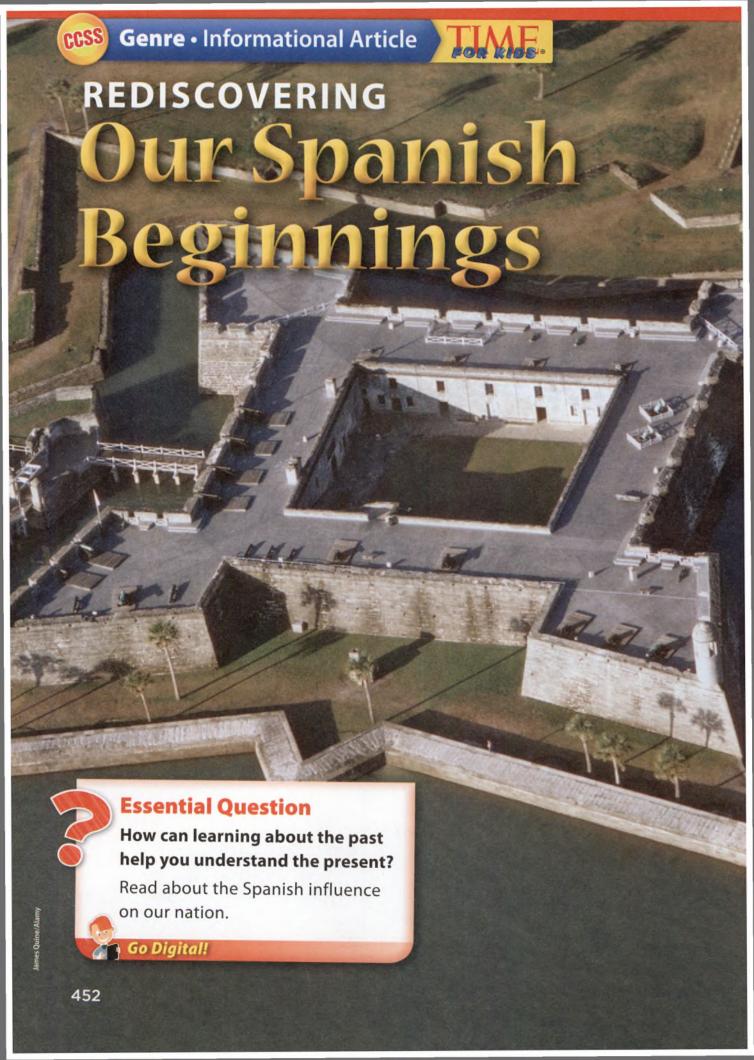
Next they had to climb up onto the table without being seen. Isabel grabbed onto a wire plugged into an outlet. Hand over hand, she pulled herself forward on the sloped wire until she could see the back of the tank. Then, swinging like an Olympic gymnast, she launched herself onto the table. Isabel stepped along the gritty surface, avoiding wide wooden grooves that she had never noticed before. Feeling lighter than air, she realized that gravity worked very differently at her new size.

To Mariela, it seemed a Herculean task to join Isabel on the tabletop. "How did you get up there?" Mariela whispered. "I'll fall if I try to jump!"

Isabel smiled. "Gravity doesn't work the same way when you're small. If you miss, you can walk up the side, like an ant!"

Swinging with sweaty palms, Mariela launched herself with all of her might. The lack of gravity slowed her, and she felt herself starting to float gently down, down, down—just missing the table. Panicking, she lunged forward, using her legs to cling to the wooden leg.







St. Augustine, Florida, is the oldest city in the United States. Its history begins with the founding of Florida by the Spanish conquistador, Juan Ponce de León.

n 1493, Ponce de León began his career as a member of Christopher Columbus's second **expedition**. After serving as governor of the Dominican Republic and Puerto Rico, he later set out on his own to find the legendary Fountain of Youth. Instead, his expedition in 1513 led to the discovery of Florida. He claimed the peninsula for Spain. It was named *La Florida* after a Spanish feast of flowers.

#### Spain's Stronghold

Establishing a colony on La Florida was easier said than done. After Ponce de León's discovery, six more expeditions were made to the Spanish-ruled peninsula. Unfortunately, all attempts to settle there failed. European crops would not take hold in the soil. This meant that settlers would have to depend on supplies from Spain to survive. Explorers also noted the heat, humidity, frequency of tropical storms, dangerous animals, and hostile native tribes as reasons not to settle. Florida was seen as a risk and ignored for many years.

Then in 1564, France successfully established Fort Caroline 35 miles

north of where Ponce de León had landed. The Spanish king found this unacceptable. A year later he sent Pedro Menéndez de Avilés, an admiral, to colonize and rule Florida. Menéndez and his soldiers destroyed the French colony. They founded the Spanish settlement St. Augustine on August 28, 1565.

Pedro Menéndez de Avilés founded St. Augustine.



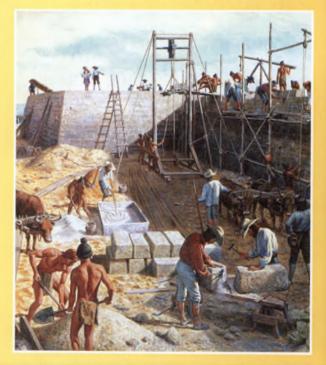
Salyer/Alamy; (t) Morton Kunstler/National Geographic Stock

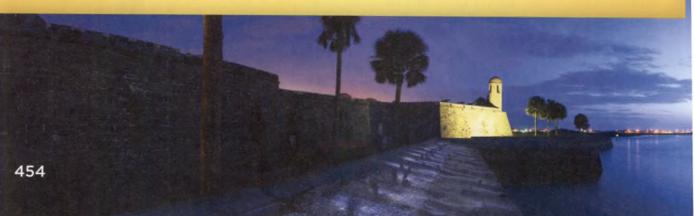
St. Augustine became the main northern outpost of the Spanish empire. It was also the center for Spanish missions in the region.
Since it was a target for enemy attack, the settlement was forced to relocate several times over the next six years. In addition, poor relations with the native Timucuans made life difficult for early settlers. Before returning to Spain in 1567, Menéndez helped to establish three forts. His nephew returned to govern Florida until 1589.

Before long the English were becoming a threat to Spanish Florida. After Jamestown was settled in 1607, the English continued to colonize up and down the east coast. The Spanish settlers were also under constant attack from pirates and enemy ships. Finally, money from Spain allowed for the building of a massive stone fortress, called the Castillo de San Marcos. This fort remains St. Augustine's most historically significant monument.

#### **A Fearsome Fort**

Just as Rome wasn't built in a day, the Castillo (castle) de San Marcos was built over time, between 1672 and 1695. It was the tenth fort built to protect the city of St. Augustine. The previous nine forts had been made of wood. The Castillo de San Marcos was constructed with a nearly indestructible shell stone, or coquina. Its **tremendous** walls tower 33 feet high and measure 12 feet thick. Enemy fire could not tear down these walls!





## Learning About the Past in the Present

St. Augustine has been part of the United States since 1821, when Florida became a U.S. territory. You can still see **permanent** signs of the Spanish **era** in the city. Many streets have Spanish names, and some buildings look like they are from colonial times.

Today, part of the city is like living archaeology. Visitors can come to St. Augustine to uncover evidence about life in the old days. Many Spanish colonial sites have been restored, and the city's museums document its history. Visitors to the Colonial Spanish Quarter learn how Spanish settlers lived centuries ago. Much of the information is based on what archaeologists have uncovered, including buttons, beads, dishes, and tools. More than one million artifacts have been uncovered since the 1930s.

#### STOP AND CHECK

**Summarize** In what ways is St. Augustine like living archaeology?



Do you speak Spanish? You may, without even knowing it!
Over hundreds of years, many Spanish words have entered the English language. In the U.S., many place names come from the Spanish language, including California, Nevada, and Los Angeles.

Other words that come to us from the Spanish settlers include burrito, cafeteria, canyon, fiesta, mosquito, patio,



#### **Respond to Reading**

plaza, rodeo, and

tango.

- 1. What makes *Rediscovering Our*Spanish Beginnings an informational article? GENRE
- 2. What happened after France established Fort Caroline? **SEQUENCE**
- 3. Find the proverb "Rome wasn't built in a day" in the sidebar "A Fearsome Fort." Use context clues to determine the meaning. PROVERBS AND ADAGES
- **4.** Write about the Spanish influence on the United States. **TEXT TO WORLD**

**Compare Texts** 

Read about two early colonies that vanished.

## HISTORY'S vsteries

Archaeology, the study of relics, artifacts, and remains, helps us piece together the past. Read on to learn about two of history's mysteries.

#### Vanished into Thin Air

In 1587, an English colonist named John White and a small crew sailed to England from tiny Roanoke Island, off the coast of

North Carolina. They left more than 100 people behind. White returned to Roanoke three years later with supplies. He found nothing but an abandoned fort. On a post was written "Croatan." How did the entire colony vanish without a trace? And what did Croatan mean? The mystery remains unsolved.

There are many theories, however. Some historians believe that a hostile Native American tribe killed the colonists. Others think that the settlers abandoned the colony to live with nearby tribes.







Archaeologist Jeffrey Brain (right) and his team of colleagues and volunteers spent ten years digging for clues about the Popham colony. The discovery of a man-made hearth (left) confirmed that the excavation site was once a home.

Disease, drought, or starvation may also have decimated the settlement. Archaeologists found a gold ring, pipes, coins, beads, and bone rings from the Croatan site. While these items serve as evidence of early contact between the native tribes and the first English colony, it's not enough to know for sure what happened to the colonists.

#### **Finding Popham**

In 1607, a crew of 125 English colonists set out on an expedition. They landed on Maine's coast. They erected a small settlement and named it for its principal backer, Sir John Popham, and his nephew George. But the Popham Colony-England's first attempt at a New England settlement—didn't survive. One year later, the colonists boarded their ship and sailed home.

For centuries, no one knew precisely where the colony had been. Then archaeologist Jeffrey Brain began excavating the area in 1994. After ten years of digging, Brain and his team uncovered traces of the colony's storehouse, a hearth (or floor of a fireplace), and stoneware fragments. Their work has helped unearth clues about the way the colony lived.



#### **Make Connections**

What did archaeology reveal about the two early colonies?

**ESSENTIAL QUESTION** 

How does digging up the past help us understand the present? **TEXT TO TEXT** 

**GESS Genre** • Historical Fiction

# THE GAME OF SILENCE

by Louise Erdrich illustrated by Joel Spector





How do traditions connect people?

Read how Omakayas learns that her way of life could change.



Go Digital!

#### Glossary of Ojibwe Words

asineeg (ah-sin-ig): a pile of stones

eya' (ey-ah): yes

gego (GAY-go): stop that!

makakoon (mah-kah-koon): containers made of birchbark makazinan (MAH-kah-zin-ahn): footwear usually made of moose hide or deerskin, often trimmed with beads or fur

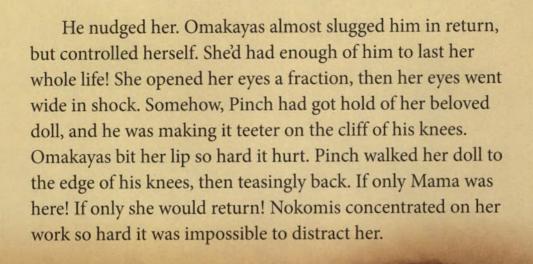
In 1850, nine-year-old Omakayas, an Ojibwe girl, realizes her family's life near Lake Superior is about to change. After being forced off their land, her cousins, "the raggedy ones," have arrived, exhausted and starving. While the adults discuss serious matters in the lodge, Omakayas and the other children in her tribe must play a "game of silence."

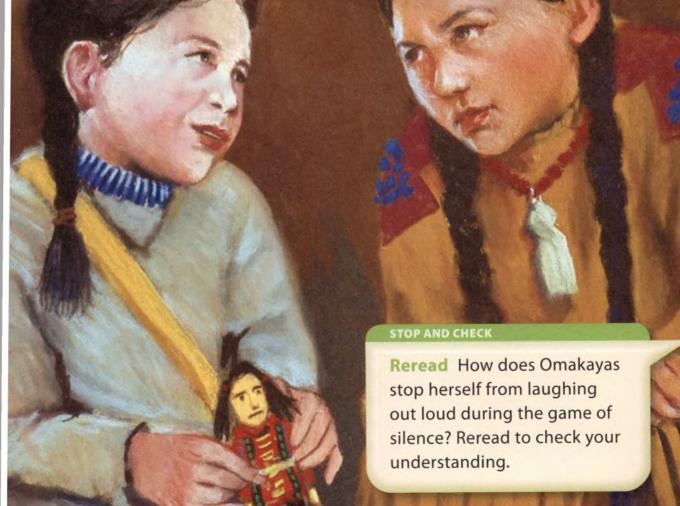
ords. Words. Words. Pressing up from her stomach, trembling on her lips. Words buzzing in her throat like caught bees. Banging in her head. Harsh words. Angry words. Sounds boiling up in her like sap. Wild things she couldn't let out.

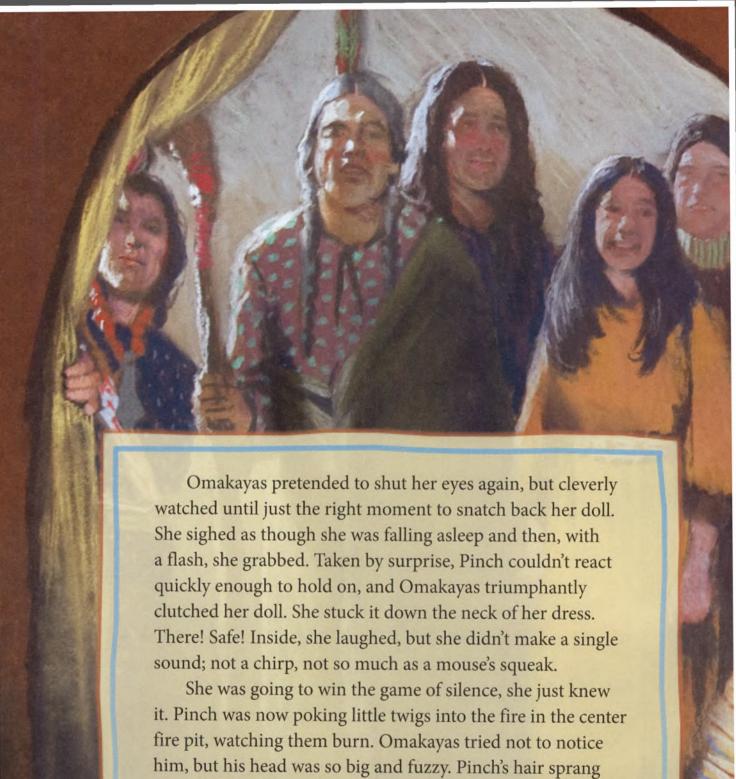
Yow! A kick from her brother almost caused Omakayas to blurt an exclamation.

No! Omakayas sealed her lips together in a firm line and glared at her brother with all of the force pent up inside. If the fire from her eyes could scorch him, Pinch would be the first to yell out. Then he would lose the game of silence. But Pinch was used to receiving furious looks from his family. He knew just how to respond. First he looked innocently at Omakayas (as though he was ever innocent!). He pretended he was unaware of the raging energy stuffed up inside of his sister. Then, as Omakayas bored her eyes at him with increasing intensity, he lolled out his tongue and twisted his face into a deranged and awful mask. His features shifted into one ugly and absurd face after the next until suddenly Omakayas just about...almost... laughed. Just in time, she clapped her hand to her mouth. Closed her eyes. Concentrated. Yes. Eya'. She would be a stone. Asineeg. A pile of stones. Each one harder and quieter than the next. She would be silent and more silent yet. And in spite of her annoying brother, she would win. She kept her eyes closed, put her forehead on her knees. Thought stone, stone, stone. Asin. Asin. Filled her mind with the sound of falling rain, which was easy. Outside, it was not just raining but pouring down a drenching, cold, miserable, early summer shower.

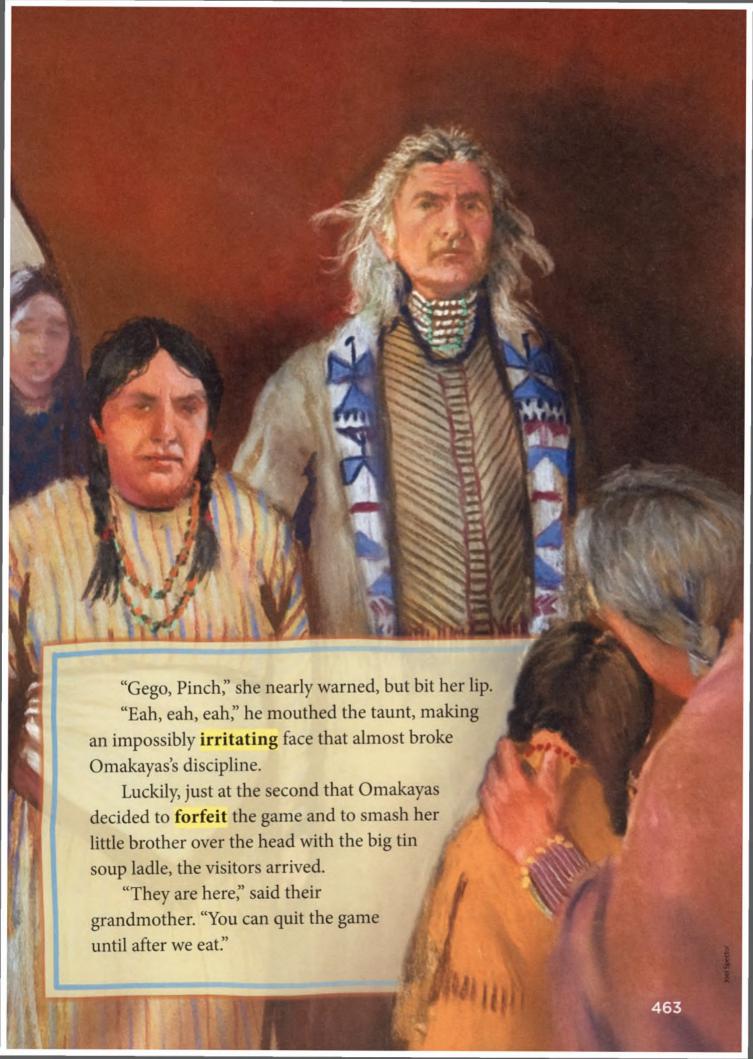
The rain had lasted for days, since the raggedy ones arrived. That was another thing. Besides Pinch, Omakayas couldn't stand rain anymore. The water made mush of tender new ground around her family's birchbark house. Droplets hissed through the roof vent into the fire, driving stinging smoke into her eyes. Everyone around her was affected. Nokomis's old bones ached and she creaked like a tree every time she moved. The watery wind sent coughs racking through her mother's chest. It was too wet to play outside, and cold when it should have been warm. Worst of all, Omakayas was stuck with Pinch.

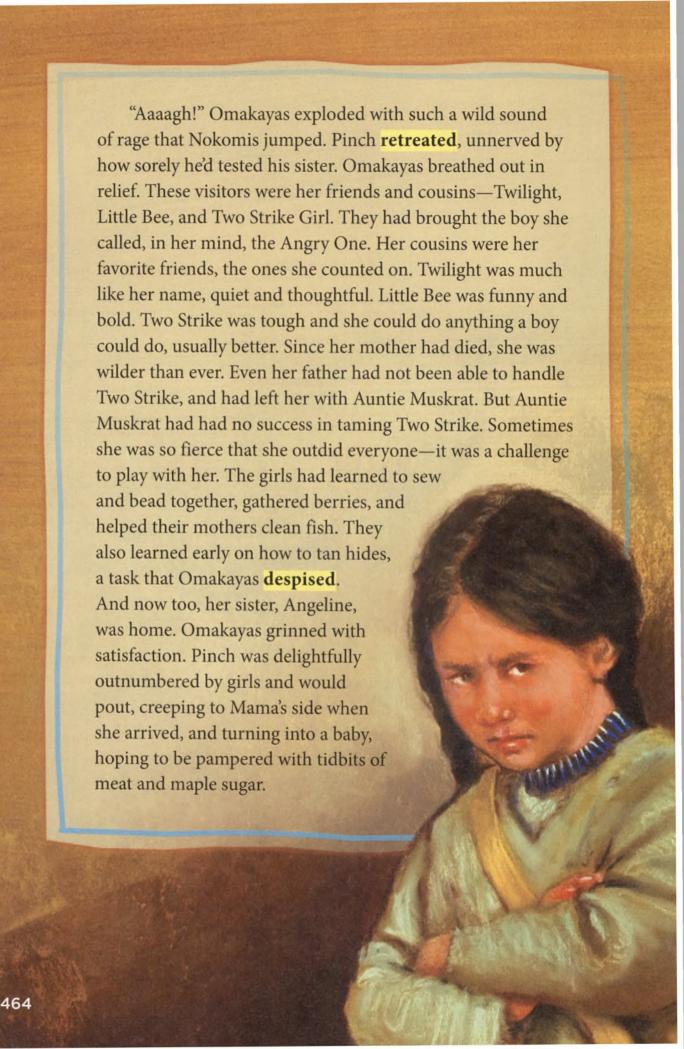


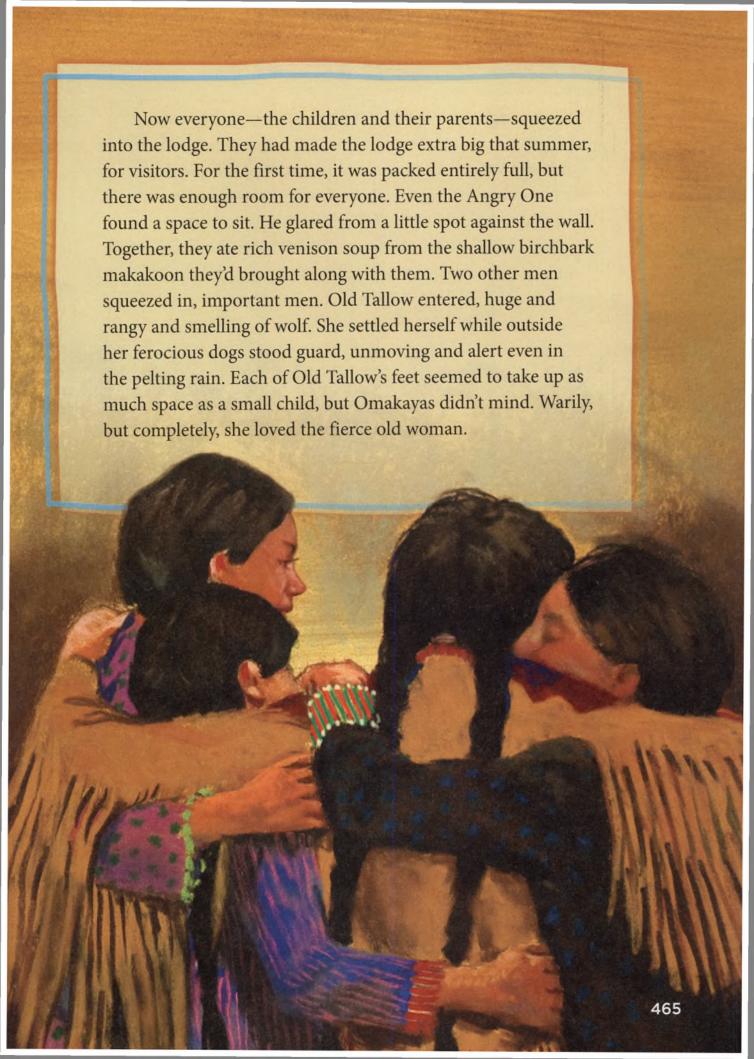


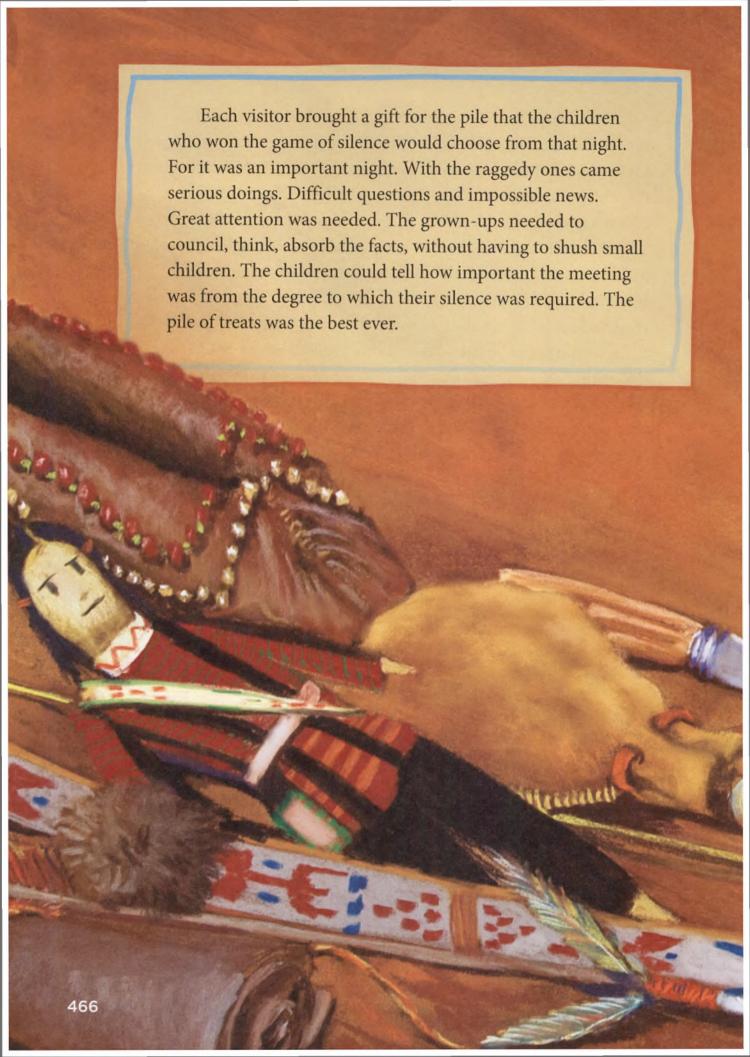


She was going to win the game of silence, she just knew it. Pinch was now poking little twigs into the fire in the center fire pit, watching them burn. Omakayas tried not to notice him, but his head was so big and fuzzy. Pinch's hair sprang out with its own energy. Crafty eyes in his tough, round face calculated his sister's **endurance**. He was surely cooking up some mischief. Sure enough, Pinch drew the burning wand from the fire and laid it innocently next to her ankle—as though she didn't know that it would scorch her if she moved the slightest inch! And make her cry out, first, and instantly lose the game! She kicked it back at him.









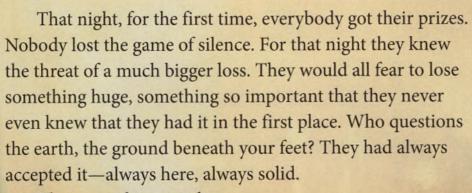
There was a bag of marbles, some of actual glass, not just clay. A pair of narrow makazinan that Omakayas thought just might fit her. One doll, elaborately dressed in a tiny set of britches and a leather coat. A sharp knife. A deer knuckle game. Two duck's bills of maple sugar tied together with split jack-pine root. Six red ribbons. A little roll of flowered cloth. Eight tiny bells. One small bow, and six arrows tipped with real brass points cut from a trade kettle. The arrows were fletched with the sharp black and yellow feathers of a bird that the island where they lived was named for—the golden-breasted woodpecker. Old Tallow must have brought them. What treasures! The children examined them breathlessly, each picking out one particular prize they meant to win.

Little Bee, of course, wanted the doll. Two Strike Girl, the bow and arrows. Pinch coveted the knife, but he was torn by greed for the maple sugar and the need for marbles to replace those he'd lost. The Angry One did not deign to move from his spot or look at the gifts. No doubt he'd have no problem winning the game! As for Twilight, quiet and serene, she had no trouble playing the game and she would be content with anything. Omakayas wanted the ribbons, the bells, and the marbles, too, but she settled on the makazinan because she had watched her grandmother make them so carefully. They were fancy, with velvet ankle cuffs, the tops beaded with flowers and little white sparkling vines. Worth her silence!

STOP AND CHECK

Reread How do the children know that important matters need to be discussed? Reread to check your understanding. Now the grown-ups were ready to start talking. Nokomis sang the song of the game of silence four times, nearly catching Pinch at the end. Then she turned away from them too, absorbed in the talk.

Omakayas looked longingly at Twilight, and her cousin made a sad and frustrated face. With her favorite cousin so close and her annoying brother so near, it was difficult to play. If only they could talk! At first, the girls communicated by mouthing words and moving their eyes, but the temptation to laugh was too great. They turned away from each other unwillingly. Omakayas listened to the rain, a solid drumming and hissing. Then she listened to the fire crackling and sighing. She watched the beautiful and changing glow of the coals. At some point, Omakayas couldn't tell exactly when, her attention was caught by something her father said. And then she noticed that her cousin Twilight was also listening to the grown-ups' conversation. Soon, they all couldn't help but listen. They leaned forward, straining to hear every sound, almost forgetting to breathe.



That something was home.

#### STOP AND CHECK

Ask and Answer Questions Why do the children listen to the grownups' conversation? Go back to the text to find the answer.

# ABOUT THE AUTHOR AND ILLUSTRATOR

Louise Erdrich thinks of herself as a storyteller. That's because she grew up listening to many stories about her heritage and later writing about them. Louise is of Chippewa descent on her mother's side, and her grandfather was a tribal chieftain. Louise has said, "People in [Native American] families make everything into a story."



Louise grew up in North Dakota, an ancestral homeland of the Ojibwe. She has written poetry, novels for adults, and many books for kids. Most of her writing focuses on the history and culture of Native Americans.

Joel Spector moved to the United States from Havana, Cuba when he was twelve years old. He began his art career in fashion illustration but soon moved on to books, newspapers, and advertising. Now an award-winning artist, Joel Spector is known for his beautiful murals and portraits, which have been featured in magazines and museums.



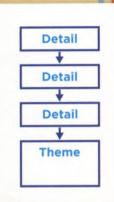
## **AUTHOR'S PURPOSE**

Why does the author include words from the Ojibwe language within the story?

# RESPOND TO READING

#### **SUMMARIZE**

Summarize *The Game of Silence* using only the most important story details. Information from your Theme Chart may help you.



## **TEXT EVIDENCE**

- **1.** How is *The Game of Silence* an example of historical fiction? Use details from the story to explain your answer. **GENRE**
- 2. Why do the children participate in the game of silence? Talk about what the game means to the Ojibwe tribe. THEME
- 3. What is the connotation of the word baby in this sentence: "Pinch was delightfully outnumbered by girls and would pout, creeping to Mama's side when she arrived, and turning into a baby..."? CONNOTATION AND DENOTATION
- 4. Write about the importance of family to the story's message.
  Use details from the story to support your response. WRITE
  ABOUT READING

# Make Connections How might life change for



How might life change for Omakayas and her family? **ESSENTIAL QUESTION**The game of silence is a family tradition

The game of silence is a family tradition for Omakayas and her brother. What other family traditions exist around the world? How do these traditions bring people together? **TEXT TO WORLD** 

### **Genre** • Expository Text

#### **Compare Texts**

Read how Native Americans have fought to keep their traditions alive.

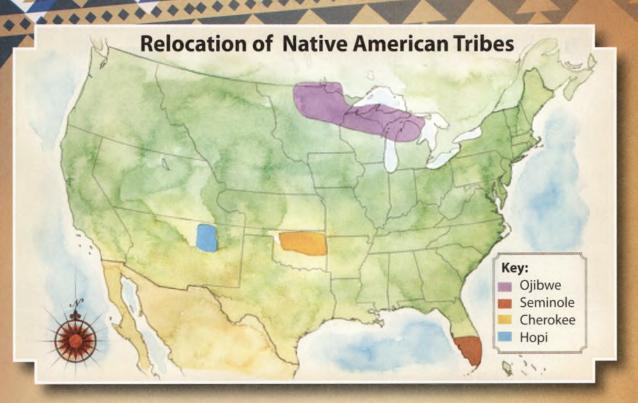
# Americans: Yesterday and Today

#### Native Americans of Long Ago

Long before you lived in your town, Native Americans hunted, fished, and farmed there. They lived off the land just as their ancestors had for centuries. Each tribe developed a way of life that depended on the area's climate and natural resources.

Yet those ways of life changed once Europeans arrived. Scholars believe thousands, perhaps millions, of Native Americans died from diseases brought by white settlers in the 1700s. As the United States expanded, wars between the settlers and tribes erupted. Of the Native Americans who survived, many retreated from their lands. The rest were forced westward by white settlers and soldiers. The Indian Removal Act of 1830 relocated tribes west of the Mississippi River. This opened up 25 million acres to settlement. Native American groups in all regions had to cope with loss. While adapting to new environments, tribes struggled to maintain traditions.





The map above shows where the Ojibwe, Seminole, Cherokee, and Hopi tribes were relocated in the mid-1800s.

#### North: The Ojibwe

The lands of the Ojibwe, also called Chippewa, spread across what are now the states of Michigan, Wisconsin, Minnesota, and North Dakota. They built shelters, called wigwams, from bark. They used the bark from birch trees to make canoes. They hunted wildlife and raised corn and squash. One of the main foods of the Ojibwe was wild rice, a grain that grows on the lakes in northern regions. As settlers pushed into the northern United States, the Ojibwe were forced from their traditional lands onto small reservations in those four states.

#### South: The Seminole

The Seminole settled in what is now central Florida in the 1700s—on land controlled by Spain. They built cabins and wore clothes like those of the white settlers. Many raised horses and cattle.

After the United States gained control of Florida in the 1830s, Seminoles were forced to relocate. Wars broke out between the Seminoles and the United States Army. Some Seminoles fled into the Everglades of Florida to resist relocation. There they hunted, trapped, fished, and traded in seclusion.



An artist's depiction of "The Trail of Tears" illustrates the difficult journey made by the Cherokee.

#### East: The Cherokee

The Cherokee people lived on lands that are now the southeastern states from North Carolina to Georgia. They built shelters called "Asi" from wood, vines, and mud with roofs of grass or bark. They grew corn, squash, and beans. In the 1800s, one Cherokee leader, Sequoyah, invented a written alphabet for the Cherokee language.

When gold was discovered on Cherokee lands, white settlers were eager to live there. This led to the forced removal of the Cherokee from their homeland by the United States government. More than 4,000 Cherokee died on the way to Oklahoma. This event is commonly known as "The Trail of Tears." To the Cherokee, it is called "The Trail Where They Cried."

#### West: The Hopi

The Hopi settled in the high desert region of what is now Arizona and Colorado. In this area with little rain, they grew corn and other crops through a method called dry farming. Dry farming used tiny dams and canals to water the fields. The Hopi cultivated corn with long roots to reach water deep underground. They built shelters out of bricks made of mud and straw called adobe.

#### Native Americans Today

These days, Native people lead different lives from their ancestors. Some groups living on reservations face poverty; others have thrived economically. The wild rice that we buy today comes largely from the Ojibwe reservation. Coal mining and tourism have supported the Hopi people. The Cherokee of Oklahoma have built hotels, hospitals, and entertainment centers. Tourism is an important source of income for the Seminole.

Despite what they have endured, Native Americans today maintain ways to honor their culture and history. Dances and gatherings called powwows allow them to celebrate ancient traditions. Sharing stories with each new generation also helps to keeps the Native American past alive in the present.

Today, Native Americans work in all different professions.

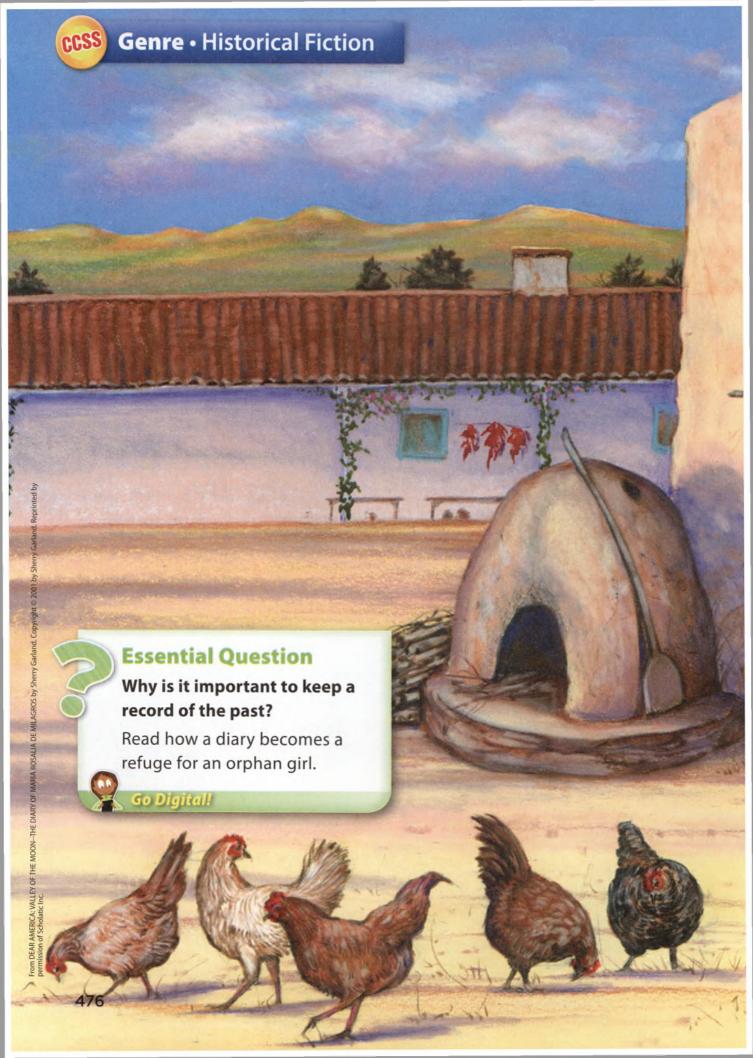


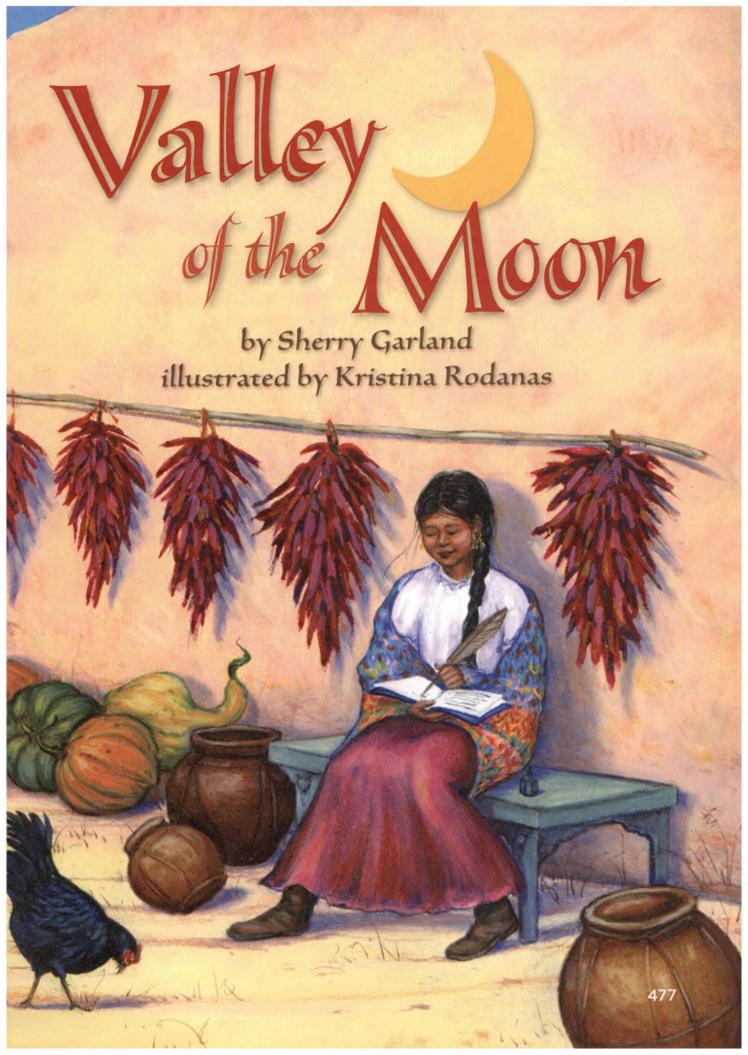
Modern Native American children participate in a powwow to honor their tribe's history.

#### **Make Connections**

How do Native Americans today honor their past? **ESSENTIAL QUESTION** 

How do traditions connect people across time? **TEXT TO TEXT** 





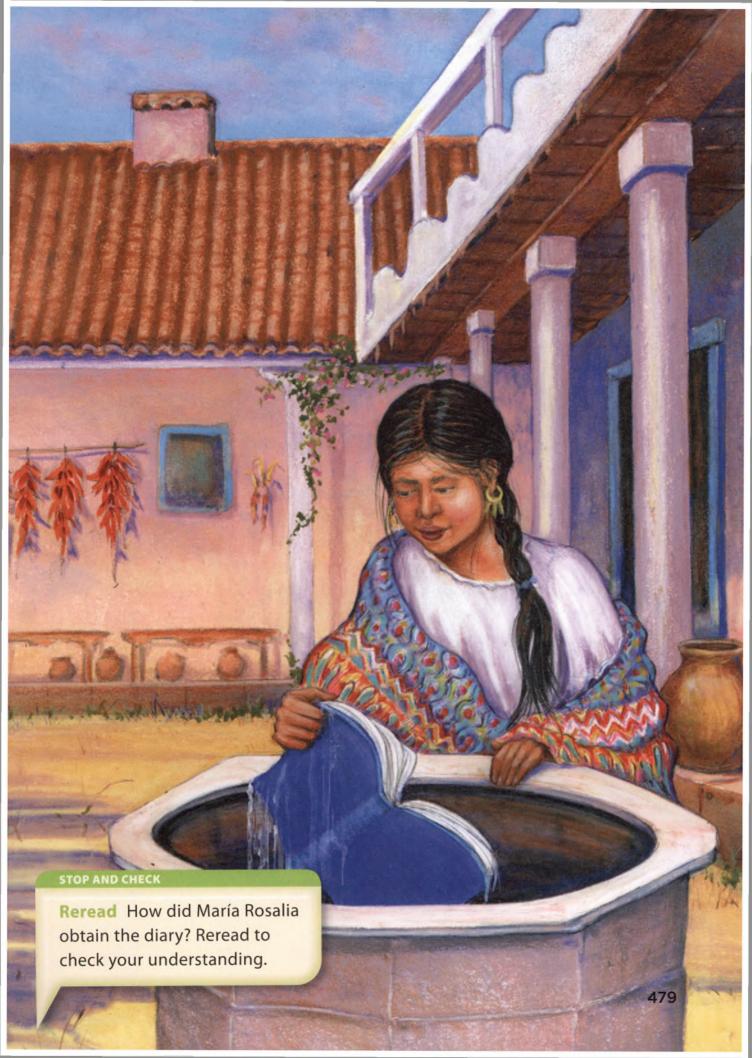
Orphaned at an early age, María Rosalia and her younger brother, Domingo, were raised by Padre Ygnacio at the Mission Rafael in Alta California. Now the children have become servants at the Medina Rancho. Taught to read and write by Padre Ygnacio, María Rosalia has recently started keeping a diary about her life at the rancho.

## October 10, 1845

Tonight I begin my first diary. The Medina family is asleep, and all is quiet throughout the rancho. Only the wind racing around the corners of the adobe house and the distant yelp of coyotes break the night silence. I am snuggled in a corner of the kitchen surrounded by baskets of dried corn waiting to be ground. The tile floors feel cold on my bare feet, but I do not mind, for I know no one will find me here.

This diary is mine because the **eldest** of the Medina daughters, Miguela, tossed it over her balcony into the courtyard. My fingers quickly rescued it from a watery death in the fountain. Señorita Miguela threw it away in a fit of resentment after it was given to her by an American suitor, Señor Henry Johnston. With flashing black eyes she cried out that a girl has no more use for reading and writing than a snake has for gold earrings. She said the diary was an insult to her beauty and charm, then tossed Señor Johnston out, too.

I feel sorry for Señor Johnston, or for any man who has the misfortune of courting headstrong Miguela, but I am not sorry that I now hold her **discarded** diary in my hands. I must not let anyone see me writing, for I am a servant, a half-Indian orphan, a girl. I am supposed to know nothing but work and **obedience**. How amazed the Medinas would be if they knew I learned to read and write from a kind old padre at Mission Rafael, many miles from here. Maybe someday I will tell them.



#### October 11

I've been thinking about Padre Ygnacio all day. It was he who found Domingo and me eight years ago beside our dying mother in the rose garden of Mission Rafael near San Francisco Bay. Her body was ravaged with smallpox, and I had placed roses over her face. I think I was about five years old and my brother was about two, but no one knows our ages for sure.

Padre Ygnacio named me María Rosalia — after the Blessed Virgin and because of the roses. He named my brother Domingo because it was a Sunday morning. For a last name he called us Milagros — for it was a miracle indeed that we did not die of the horrible plague that claimed the lives of so many Indians in Alta California. They say that out of forty thousand Suisun people, only two hundred lived. Some smaller tribes lost everyone. How Domingo and I survived is one of the many mysteries of my life.

When Padre Ygnacio found us, we did not speak much Spanish and he did not know our Indian dialect. But of one thing he was sure: Though our mother had the bronze skin of an Indian, our skin was the light brown of *mestizos* — half-Indian and half-Spanish. It was obvious that our father had been a white man. Whether he was a wealthy Spanish landowner, a Spanish soldier from the *presidio* at San Francisco, a Russian fur trapper, or an American merchant sailor, no one knows.

Lupita, the cook, is the closest thing to a mother I have. Her husband, Gregorio, is the head *vaquero* on the ranch. He oversees the men who tend the cattle and horses. It was Gregorio who found me and Domingo at Mission Rafael four years ago and brought us to live at the Medina ranch — Rancho Agua Verde. Lupita and Gregorio have no children of their own but have raised several orphans. I know they care about me, yet my heart feels empty. If I do not know my past, how can I plot my future? I must stop thinking such things and get back to work. If I don't finish grinding this corn, there will be no *tortillas* tomorrow.



# Sunday, October 12

I have no place to hide this diary. My room in the servants' quarters is so tiny that I can hardly turn around. I share it with Ramona, the seamstress. We sleep on woven straw pallets on the floor and roll them up each morning. We take turns sitting on the one chair at the one tiny table. Whoever doesn't get the chair sits on an overturned wooden bucket. The adobe walls and ceiling are stained with black soot from the fireplace and tallow candles.

But our quarters are not as bleak as some. Ramona saves scraps of cloth from the sewing projects. Our walls are alive with color — a wool tapestry, one finely embroidered hanging that **depicts** the Holy Virgin, and another hanging that shimmers with flowers. Even our floor has a wool rug made of remnants from the spring sheepshearing. Pegs line the walls for our sparse clothing. Baskets hang from the heavy timber beams for food and miscellaneous items. It is better than the room I shared with four other orphans at Mission Rafael.

#### October 13

The Medina daughters saw me in the courtyard today carrying the diary. Miguela was amused and said I could keep it. "Perhaps you might use it for fire kindling, Rosa," she said with a toss of her black curls. Miguela is seventeen and has been available for marriage for two years. She is a great beauty but has **ignored** all the men who call on her and has refused several proposals. If I were rich, I would pay a man every *peso* I owned to take her away from this ranch.

Rafaela, the middle daughter, who is aged fifteen, is gentle and sweet but very sickly. She coughs often, and her skin is paler than white lilies. She told Miguela not to be so unkind because I am more like family than a servant. Bless her soul, how I wish her words were true.

Gabriela, who is eleven and like a little sister to me, said to just ignore Miguela. Everyone knows how Miguela is, but her words stung.



#### October 14

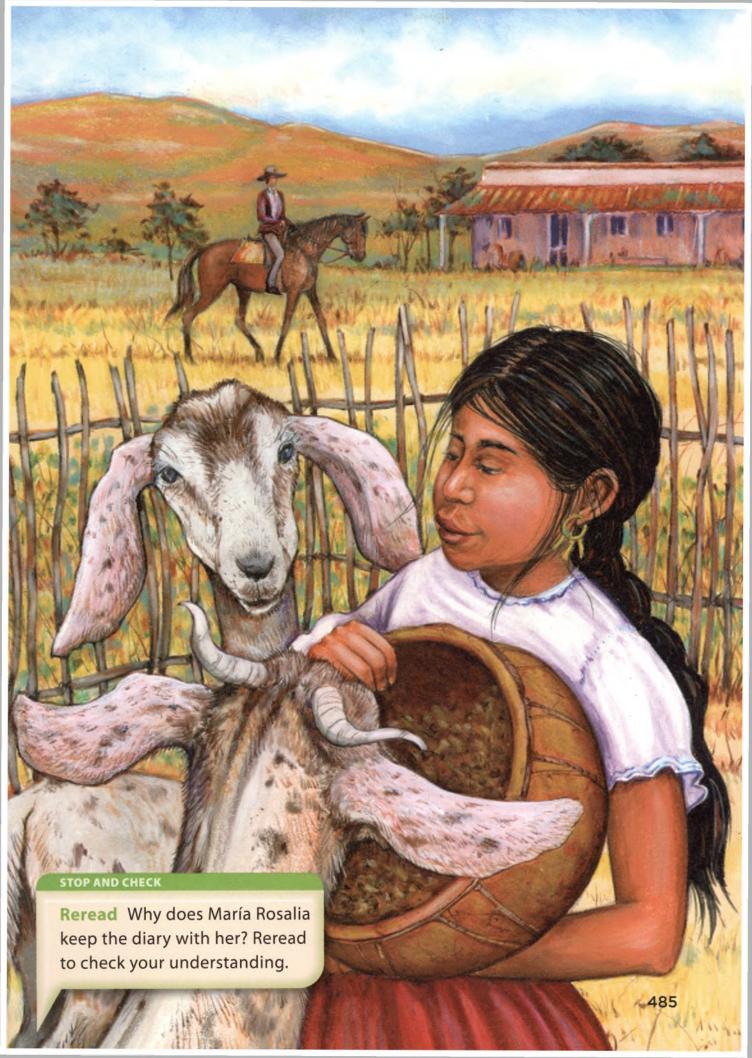
I am in the goat pen seizing a moment to write in my diary. I milked the goats faster than lightning so that I might have a free moment. I carry the diary with me all the time, tied to my waist with a sash and hidden under my skirt. I dare not write at night in my room for Ramona is a light sleeper.

I have no ink, so I am using beet juice. It leaves an uneven pale red color, but it must do until I find real ink. For a pen, I am using a sharpened black feather from the tail of Paladin, Señor Medina's favorite fighting rooster. Domingo stole the feather from the chicken coop and gave it to me. All I think of while doing chores is the moment I will open this diary and write. It is my island of **refuge** in a sea of work.

#### October 15

Señor Johnston is here again. I like him very much. He speaks to me kindly and does not order me around. He owns a merchant business in the small town of Yerba Buena on San Francisco Bay south of here. Being twenty-eight years of age and settled, he is now looking for a wife. He has decided upon Señorita Miguela (may Heaven help him!) and has visited Rancho Agua Verde many times this year.

Señor Johnston is waiting for his brother and family, who are coming by wagon train from Missouri to join him in California. They will arrive first at Sutter's Fort in the Sacramento Valley, where Johnston will go to meet them. A few years ago there were very few foreigners in Alta California, just some sailors and fur trappers. Now they come in a steady stream — mostly farmers from Missouri. There are hundreds of them, especially in the Sacramento Valley northeast of here.



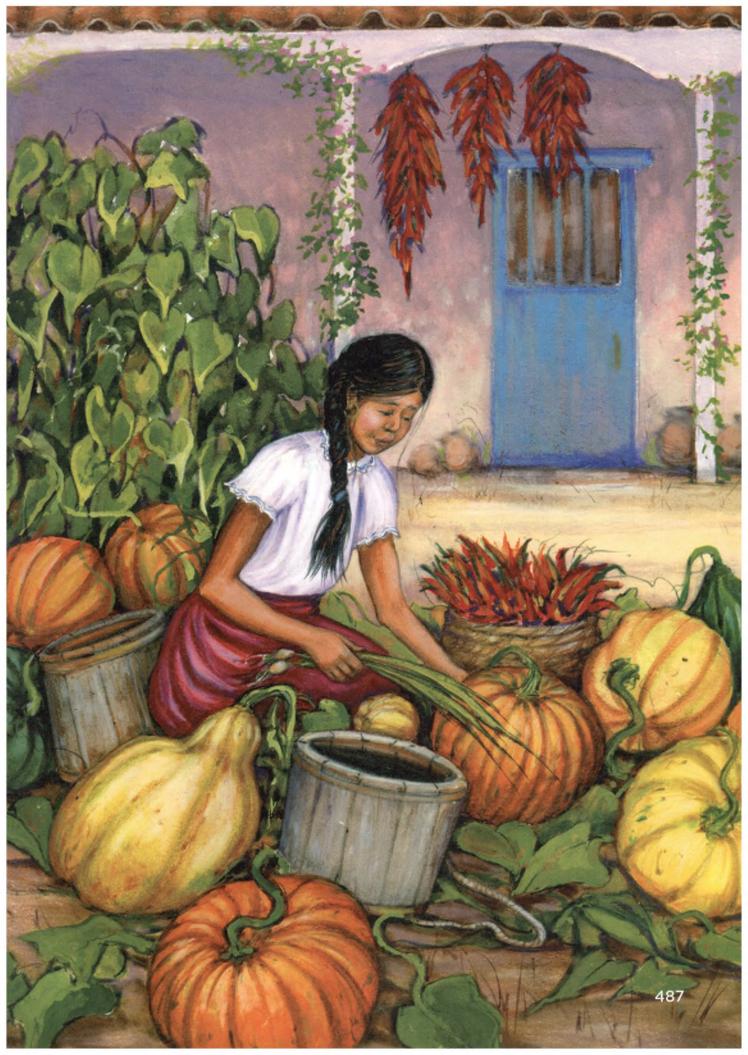
Lupita does not trust the *norteamericanos*. She says they are supposed to become loyal Mexican citizens, learn to speak Spanish, and become Catholics in exchange for land. But not all of them do as they agreed. She especially dislikes the foreigner Johann Sutter, who encourages other foreigners to come to California illegally without permission from the Mexican government. There are already squatters on Señor Medina's lands. Lupita thinks they will take over Alta California before long.

I do not care what Lupita says. I like Señor Johnston, even if he is an *americano*. He is beside himself with excitement about his brother's arrival. But he is worried. The snows will soon start to fall on top of the Sierra Nevada mountains to the east, causing deep drifts and icy rocks that make the passes treacherous to cross. If the Johnston family does not clear the mountains by the end of this month, they are surely doomed.

### October 16

Spent a pleasant morning working in the courtyard that is surrounded by the thick walls of the *casa grande* on four sides. I wonder if the Medina house will ever be completed. Every year, the Indian workers add a bit more. When the main house was first built, it was a simple, one-story structure like nearly all the *ranchos* in northern Alta California. But after Señora Medina and Miguela saw the grand *rancho* that General Vallejo was building at Petaluma a few miles away, they insisted on having a second story with balconies and rambling rose vines. At the moment, only the Medina family has upstairs bedrooms with balconies. Everyone else, servants and guests alike, sleeps downstairs. I do not mind for walking up and down stairs makes my legs ache.

Drew ten buckets of water from the well to tend the herbs, beans, squash, pumpkins, melons, onions, and hot chiles in the garden near the kitchen door. Swept the veranda that is roofed with brown clay tiles. Pruned the rambling Castilian roses that climb up the posts to the upstairs bedroom balconies. Picked late maturing pears from Señor Medina's cherished fruit trees.



I am tired, but am writing during *siesta* while everyone else rests. Writing brings me more joy than sleep! Nothing would make me happier than to write all day and all night.

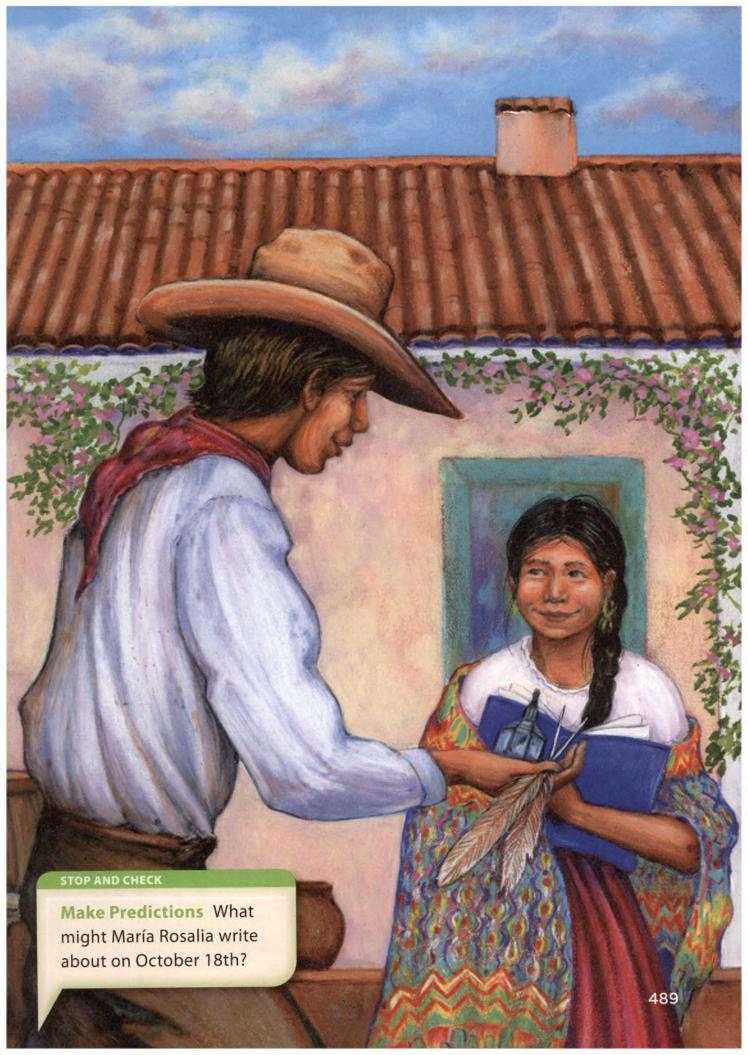
### October 17

¡Madre mía! My secret is uncovered! While I was in the courtyard writing in my diary today, Señor Johnston appeared out of nowhere. I was afraid he would be angry that I had it, but his large blue eyes grew wide like an owl's. He said to me in his best Spanish (which I am sorry to say is not very good): "Rosalia! I cannot believe you are writing! How did you learn such skills?"

I begged Johnston not to tell anyone, for it would only mean trouble for me. I explained how Padre Ygnacio taught the Indian boys at Mission Rafael to read and write. He let me sit quietly at the back of the room and I helped Domingo, who detested lessons and being indoors. The California missions were closing down, anyway, and the padre did not care if the rules said girls did not need an education. He said if a girl wanted to read and write, he would not stop her. He was very generous and tolerant when it came to the mission *indios*.

Johnston was so astonished that he dug into his leather saddlebag and handed me a bottle of ink, a very nice brass point, and two turkey quills. Now the ink flows onto the pages almost as fast as I think of words.





# About the Author and Illustrator



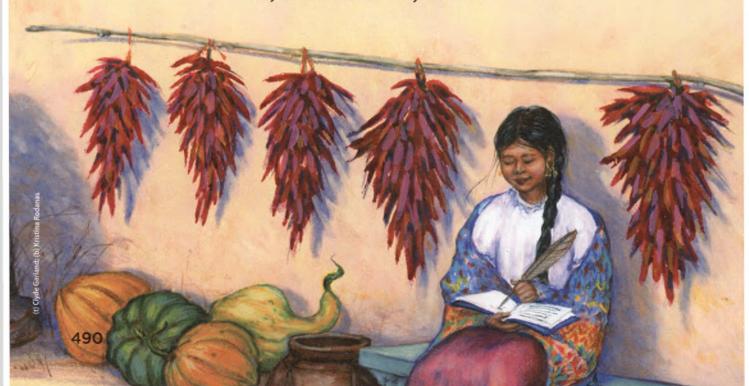
Sherry Garland grew up in Texas, the youngest of nine children. She started writing in high school and had her first book published in 1982. She loves to do research and enjoys traveling to different places to find information about a topic. It usually takes her about a year to research a new book. Sherry says that she gets "ideas from real events, things that appear in newspapers, on TV, or things that really happened years ago."



Kristina Rodanas enjoys writing and illustrating. She has written and illustrated a number of Native American folktales and likes learning about different cultures. She lives in Orleans, Massachusetts.

# Author's Purpose

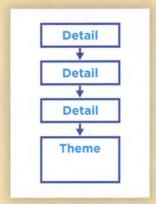
Why would the author choose to present María Rosalia's story as a series of diary entries?



# Respond to Reading

## Summarize

Use the most important details from *Valley of the Moon* to summarize the selection. Information from your Theme Chart may help you.



# Text Evidence

- **1.** How do you know that *Valley of the Moon* is historical fiction? **GENRE**
- 2. Why does María Rosalia have to hide the fact that she knows how to read and write? THEME
- **3.** What is a homophone for the word *pale* on page 484? Use context clues to define the word as used in the story. **HOMOPHONES**
- 4. Write about what the diary entries tell you about María Rosalia's character. WRITE ABOUT READING

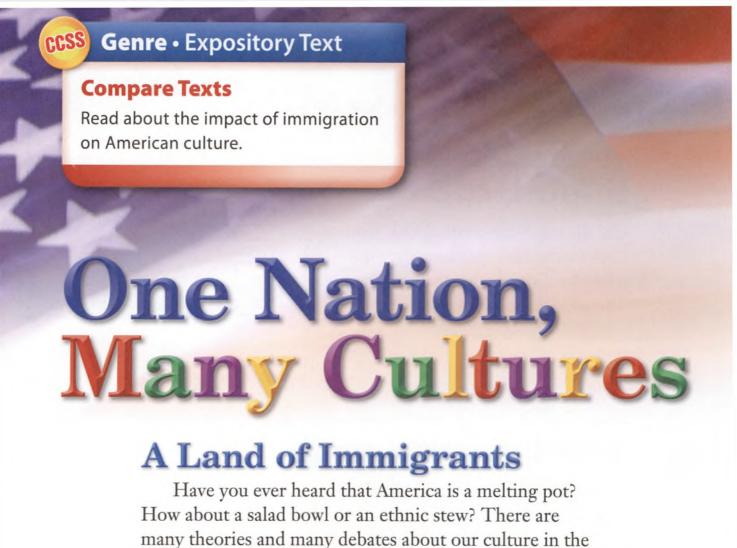
#### Make Connections



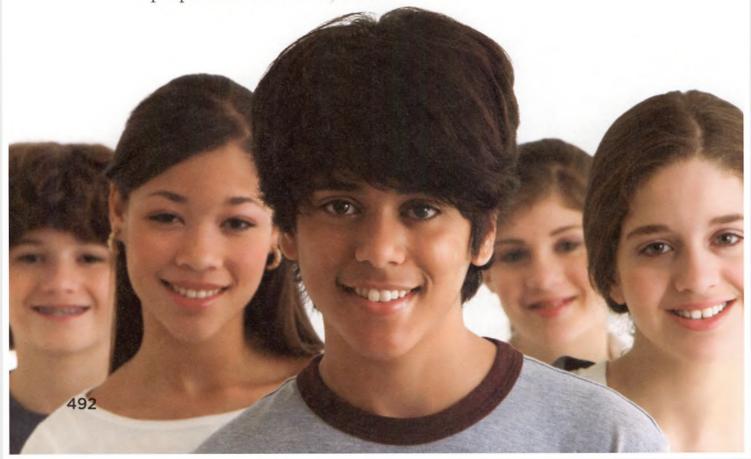
Why does the diary become a refuge for María Rosalia? **ESSENTIAL QUESTION** 

Why is keeping a record important to people?

TEXT TO WORLD



United States. This is because our country is made up of people from all over the world.



The United States has been a land of immigrants ever since the Spanish explorers came ashore way back in the 16th century. Over time, as our country developed, declared its independence, and gave rise to industry, immigrants came from all over the world. Most came from Europe—mainly Great Britain, Ireland, Germany, Russia, and Italy. For an opportunity to live in our nation, immigrants often spent many treacherous weeks at sea battling hunger and illness.

# **A Land of Opportunity**

In the 18th and 19th centuries, the term "melting pot" was a popular metaphor used to describe how immigrants assimilated into our culture—that is, they left behind their homeland's customs to forge a new American identity.

Immigrants viewed moving to our nation as a chance for a better life. Many Europeans endured hardships in their home countries. They dealt with poverty and hunger. They did not have jobs. Many were unable to feed their families. The United States, however, was brimming with opportunities. Unskilled laborers could work in factories. Finally they could earn enough

money to provide for their families. Some immigrants longed to move west and own land. Others wanted to work on the railroad.

Immigrants cheer and raise their hats as they approach Ellis Island in the early 1920s.



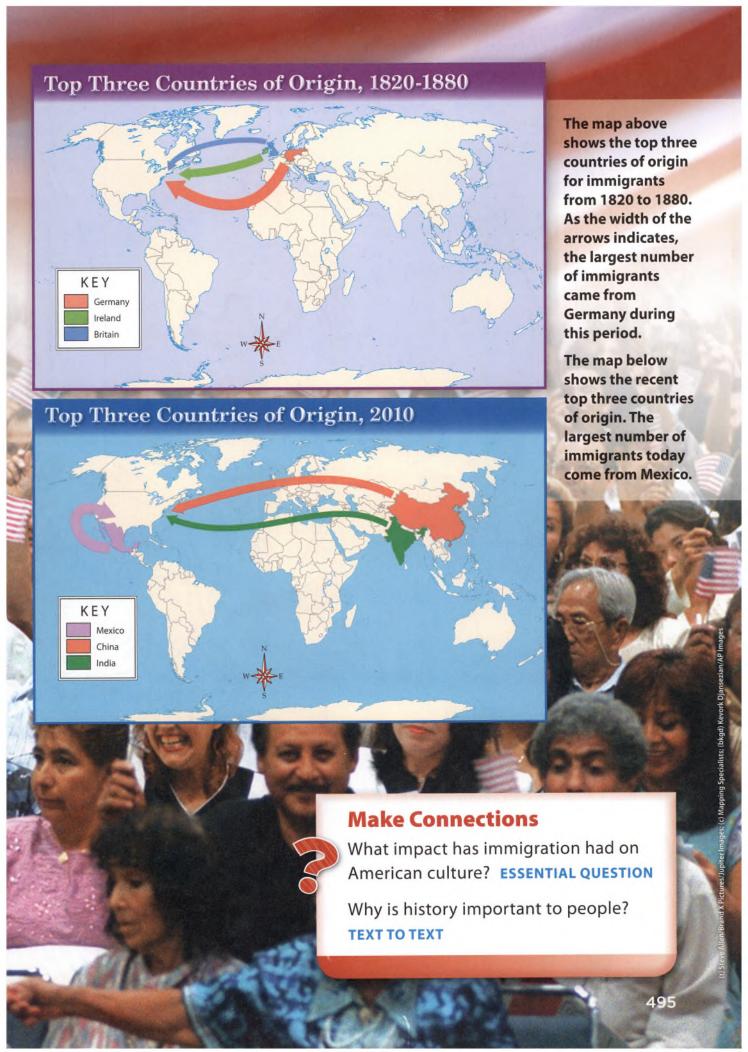
As more immigrants made the United States their home in the 1920s, the term "salad bowl" seemed more appropriate for describing the nation's cultural identity. In this theory, immigrants do not completely assimilate—instead they hold onto their individual beliefs, languages, and customs. As in a salad, each ingredient is separate, but all of the ingredients together contribute to the overall taste. Diversity defined what it meant to be an American.

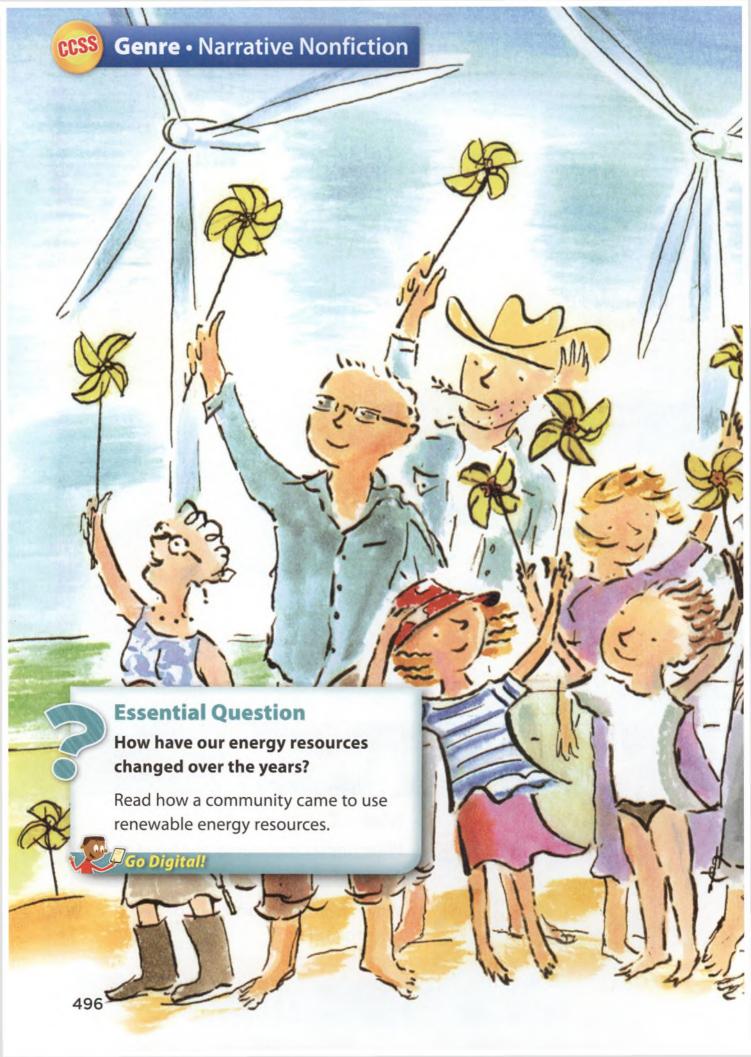
# **Immigration Today**

A more recent theory on American culture—the stew pot theory—is a combination of the melting pot and salad bowl theories. It compares immigrants to ingredients that take on other flavors and tastes as new ingredients are added to the pot. In other words, immigrants take on American characteristics to blend in and show **obedience** to national laws, but they also hold onto their cultural backgrounds. This adds to the diversity of the country.

Today, immigrants still arrive from all over the world. The majority of them come from Latin America. These immigrants come here for the same reasons that immigrants came here hundreds of years ago. They come for freedom and for a chance at a better life. They might be escaping poverty or war in their homelands. Some immigrants come to the United States to work and send money back to their families.

Immigration is more than just a part of our past or present. It is the very foundation that this country continues to build upon. Melting pot, mixed salad, or stew pot—these images all suggest how immigrants have given the United States its unique blend of cultures. Because of this variety, our country is unlike any other.







How One Community Harnessed the Wind and Changed Their World

by ALLAN DRUMMOND

Welcome to Energy Island! The real name of our island is Samsø, but we like to call it "Energy Island."

Not too long ago we were just ordinary people living on an ordinary island in the middle of Denmark. In many ways, Samsø was—and still is—not very different from where you live. We have lots of fields and farms, where farmers raise cows and sheep, and grow crops like potatoes, peas, corn, and strawberries. And there is a harbor where the ferry and fishing boats come in.

Our little home has recently become quite famous, and scientists travel from all over the world just to talk to us and learn about what we've done. Why is that? Well, it's an interesting story...

Let's go! Hold on to your hats!



Our island is in the middle of Denmark...and it's in the middle of the sea. That's why it's always very windy here! Oops!



In the summer we have fun at the beach. And in the winter we play games inside. We have villages and schools. Kids play soccer, and grownups go the grocery store. It's very ordinary here—apart from the wind.

The way we used to use energy was very ordinary, too. On dark winter nights we switched on lots of lights, and turned up our heaters to keep warm. We used hot water without even thinking. Our oil arrived by tanker ship and truck, and we used it to fill up our cars and our heating systems. And our electricity came from the mainland by cable under the sea.

A few years ago, most of us didn't think much about where our energy came from, or how it was made. That was before our island won a very unusual competition. The Danish Ministry of Environment and Energy chose Samsø as the ideal place in Denmark to become independent of nonrenewable energy.

A teacher named Søren Hermansen was selected to lead the energy independence project. He was a very ordinary person, too...



#### Renewable Energy

Renewable energy comes from resources that will never run out, or that can be replaced. For example, wind is a renewable resource, since the wind will always blow. Windmills were invented to catch that energy.

Rivers keep flowing all year, so they are also a source of renewable energy. People have been using dams, water mills, and other means of harnessing water power for thousands of years.

Sunlight, which can be converted into solar power, is another example of a renewable resource, and so are the plants and trees that can be harvested and converted into biofuels and then replanted.

Scientists are even figuring out how to create energy from burning garbage and human sewage!

#### STOP AND CHECK

#### **Ask and Answer Questions**

What are some examples of renewable energy?



"Imagine if we really could make enough energy from the sun, and our crops, and even our own legs, to power up the whole island! Then we wouldn't need the oil tankers to come here. We wouldn't have to worry about all the world's oil running out. And we wouldn't need electricity to be sent from the mainland. Renewable resources are so much cleaner. And think of the money we'd save! We just need to think big."



"But do you think we can really create that much energy ourselves?" asked Naja. "From just the sun, our crops, and our legs?"

"Well, you know," said Kathrine, "if there's one thing our island has plenty of, it's wind! Maybe we should start with wind energy."

"That's a wonderful idea!" said Mr. Hermansen. "Who's with me?"

"Hold on to your hats!" we all said.

#### The Problem of Nonrenewable Energy

Coal, oil, and natural gas are amazing sources of energy. They have helped create the modern world we live in—full of cars, plastic, and electricity. But that progress has come at a price, and that price is CO<sub>2</sub>.

Carbon dioxide—CO<sub>2</sub>—is a gas produced as waste when fossil fuels are burned for energy. CO<sub>2</sub> does occur naturally—in fact, you make some every time you breathe! But when we produce very large amounts of CO<sub>2</sub>, as we do when we use fossil fuels,

it can become a serious problem for the world.

When gases such as water vapor, methane, ozone, and carbon dioxide are released into the Earth's atmosphere, they trap heat. When heat is trapped inside the atmosphere, this is called the *greenhouse effect*. When the average temperature of the planet increases over time due to the greenhouse effect, it is called *global warming*. Global warming is a type of climate change.

We kids were very excited about all the new ideas. But as for the grownups...Well, it took them a while to catch on.

"It will cost millions!" said Jørgen Tranberg. "All these cows keep me busy enough already!"

"Heat from the sun?" said Peter Poulen. "Why would we bother with that? As long as I can keep my house warm and watch TV, I'm happy. I don't need change."

"Bicycles?" said Mogens Mahler. "No way. I love my truck!"

"Why us?" said Dorthe Knudsen. "Let some other island take on the challenge."

"Renewable energy?" said Jens Hansen. "I'm too old for all that."

"Samsø is just an ordinary place," said Ole Jørgensen. "What difference can we make to the world?"

"Energy independence? In your dreams!" said Petra Petersen.



#### **Global Warming**

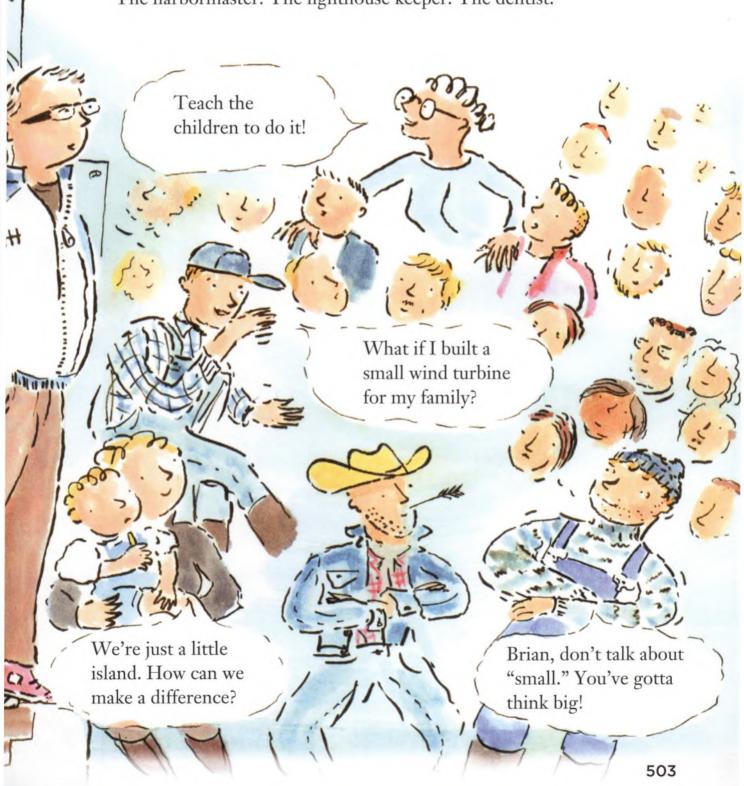
Global warming can have serious consequences for all living things.
Scientists predict that in the coming years summers will become hotter, winters will become colder, and storms will be fiercer.

Many scientists also believe that global warming is causing the ice caps at the North and South poles to slowly melt away, which changes the level of water in the ocean and affects animals like polar bears and penguins, not to mention people living on coastlines all over the world.

That's one of the reasons why scientists are making such an effort to use less and less nonrenewable energy. One way to do this is to use more renewable energy, which usually releases less CO<sub>2</sub>.

But scientists can't do it alone! Today we should all be thinking about the problem of nonrenewable energy, just like the islanders of Samsø. But Søren Hermansen wouldn't give up. He called lots of local meetings. "There's energy all around us!" he told the islanders. "We just need to work together and think big to make the best use of it."

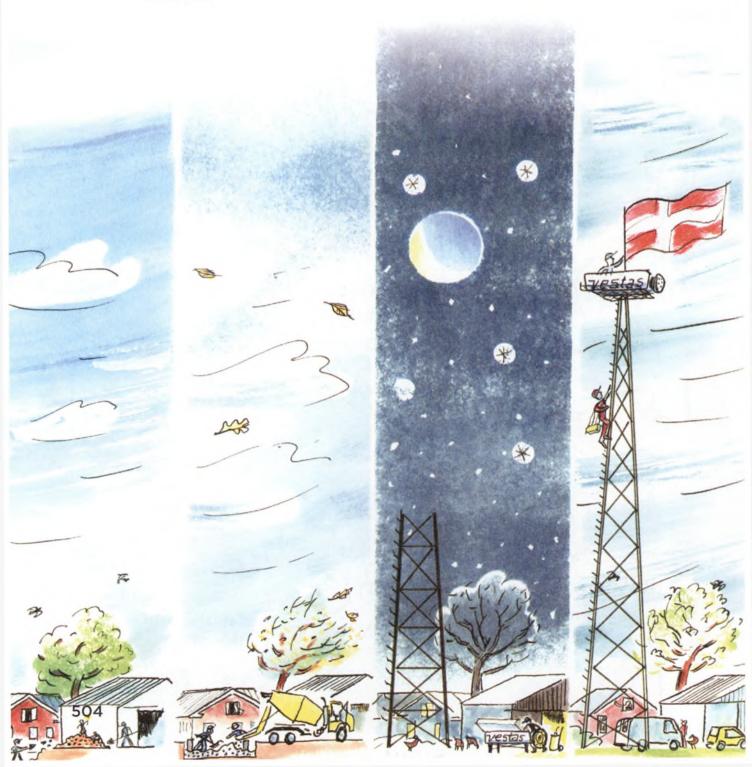
He talked to everyone...The soccer team. The farmers at the market. All the teachers. The police. The fishermen. The harbormaster. The lighthouse keeper. The dentist.



This went on for several years. People listened, and lots of them even agreed with what Søren Hermansen was saying, but nothing happened. Was anyone willing to make a change?

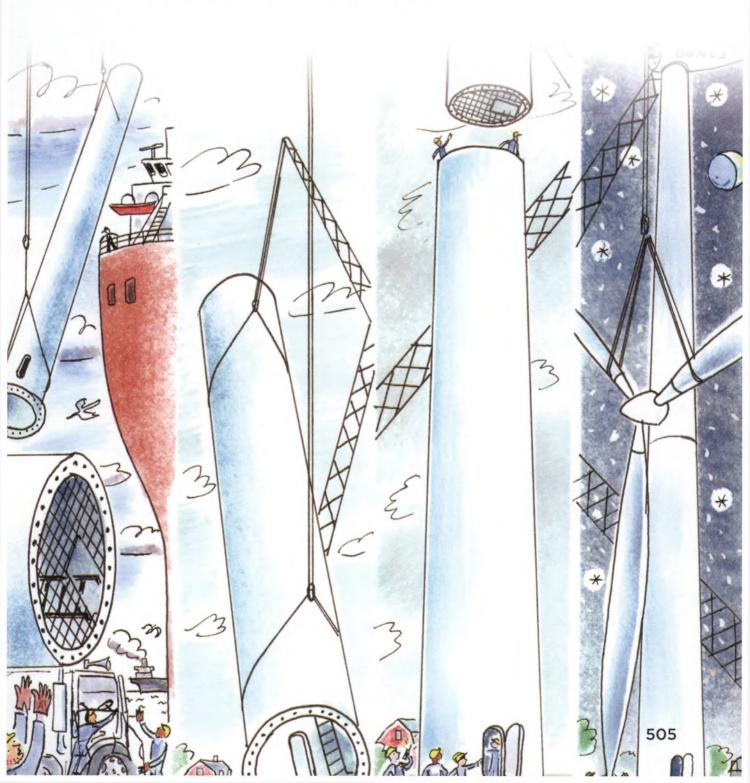
Then one day, the electrician Brian Kjær called Søren Hermansen. "I'm thinking small," he said. "I'd like to put up a secondhand wind turbine next to my house."

Jørgen Tranberg was thinking big. "I want a huge wind turbine. I'll invest my money and then sell the electricity it makes."



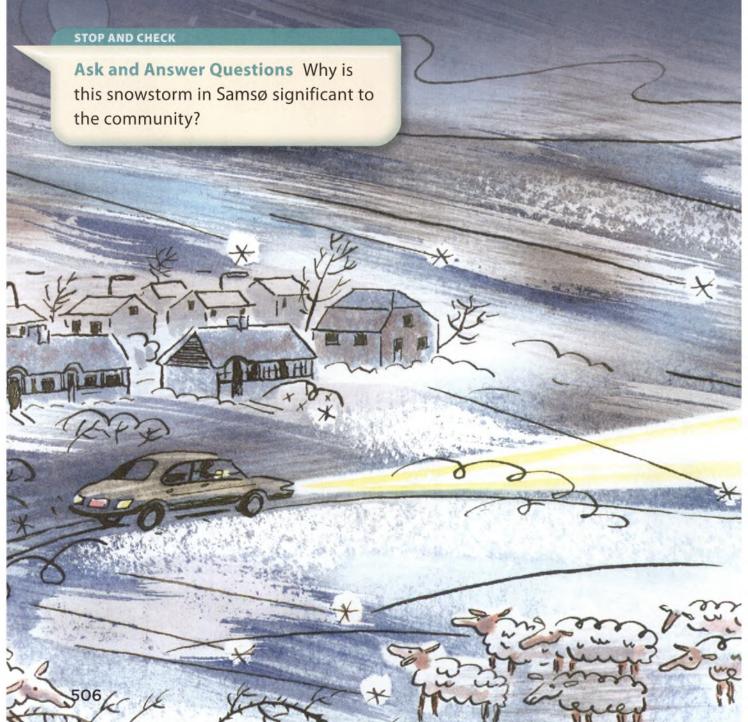
Mr. Hermansen was excited. Two renewable energy projects had begun. One very small...and one very big!

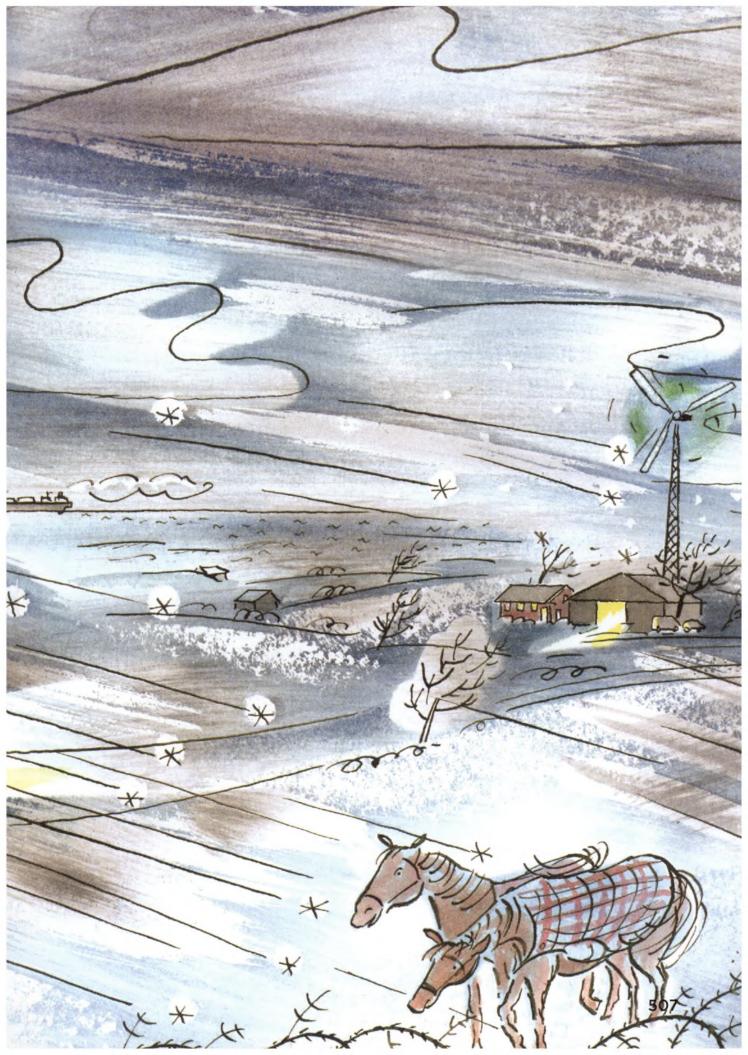
Brian Kjær called on his family and friends to help him put up his wind turbine...while it took a big ship, some giant trucks, and two enormous cranes to build Jørgen Tranberg's! The project on Samsø had begun, but we were still using a lot of nonrenewable energy. It looked like we might never achieve our dream. Until one dark winter night...



Sleet and snow blasted across the island. Suddenly, all the electricity on the entire island went out! Everything was dark.

Everything, that is, except Brian Kjær's house. "Free electricity!" shouted Mr. Kjær. "My turbine works! Tonight I'm energy-independent!" Sure enough, the blades on Mr. Kjær's new turbine were whooshing and whirring in the wind! "Hold on to your hats!" cried Søren Hermansen.





News travels fast on a small island like Samsø.

After that night, everyone was asking how they could make energy of their own.

Suddenly, Søren Hermansen was busier than ever, helping people start new energy projects. The whole island got to work. Some people had big ideas. Some people had small ones. But all of them were important in working toward our goal.

The Holm family **installed** solar panels on their farm. Today their sheep are munching grass while the panels soak up energy from the sun. Ingvar Jørgensen built a biomass furnace. It burns straw instead of oil, and now heats his house and his neighbors' houses, too. In fact, biomass is so big on Samsø that whole villages are now heated by burning wood and straw grown on the island. Erik Andersen makes tractor fuel oil from his canola crop. And Brian Kjær's wife, Betina, whizzes around in an electric car. Their windmill powers the batteries.



Today we even have electric bicycles, charged by the power of the wind. Every one of us has an energy independence story. And that's why people all over the world want to hear the latest news from Energy Island. Let's see if Jørgen Tranberg will take us up the ladder to the very top of his fantastic wind turbine, so we can see what Samsø looks like today.



#### Wind Energy

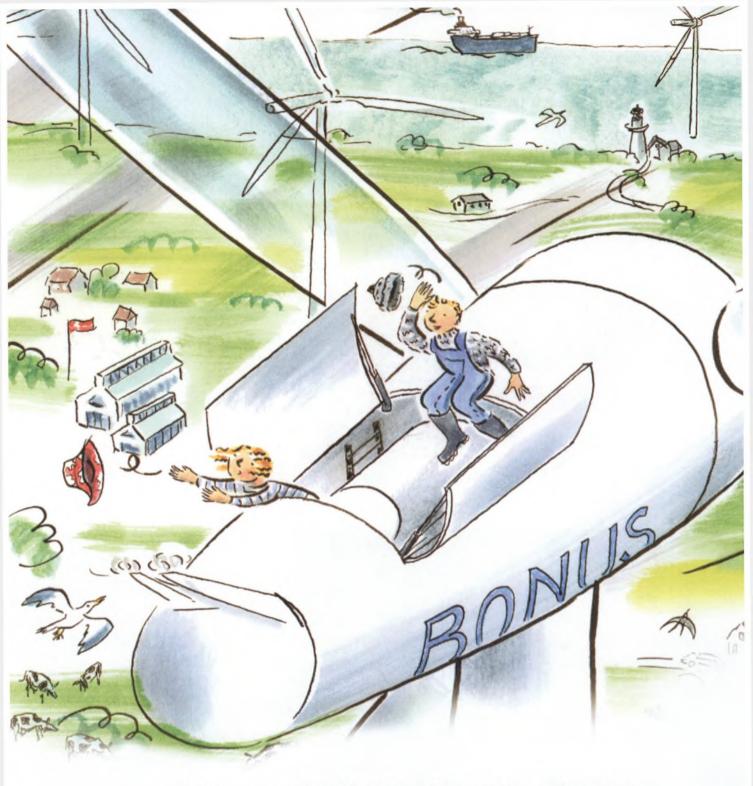
Windmills were first invented over 1,000 years ago in the land that is now Iran. Back then the windmills were used to grind corn and pump water. It's a strange coincidence that today Iran is a place where huge amounts of oil—a fossil fuel—are drilled from the ground and shipped all over the world.

Windmills are still used in the modern world, and they can do lots more than grind corn. The wind turbine, a modern type of windmill, actually makes electric power.

When wind blows across a wind turbine's blade, the blade turns

and causes the main shaft to spin a generator, which makes electric power. The more wind there is outside, the faster the blades turn, and the more energy the turbine makes.

Before a turbine is built, scientists take measurements to discover which places are the windiest. Today there are turbines on hills, on top of city buildings, and even in the ocean! The electricity that is created by wind turbines can be used to power a single home or building, or it can be connected to an energy grid where the electricity is shared by a whole community.



As you can see, there's plenty going on! Now we have lots of wind turbines. Down there is Samsø's brand-new learning center, the Energy Academy, where kids and grownups from all over the world come to learn about what we've achieved, and to talk about new ideas for creating, sharing, and saving energy. Guess who the director of the academy is. An extraordinary teacher named Søren Hermansen.



#### **Energy in the World**

The more fossil fuel a country uses, the more CO<sub>2</sub> it produces. The United States produces nearly six billion metric tons of CO<sub>2</sub> per year. That weighs more than eight hundred million elephants!

As countries across the world become more developed and use more energy, they produce everincreasing amounts of CO<sub>2</sub>. Global warming is becoming a more frightening prospect every single day.

But there is good news. In this modern world we are able to share ideas and work together much more

easily than ever before. Scientists are working on incredible new ways to use renewable resources and to save energy.

Some places are windy, some are sunny, some are hot, and some are cold. Each country or community must look at what special resources it has available, so as not to be dependent on nonrenewable resources in the future.

The Samsø Energy Academy is a place where people of all ages can share ideas about energy and how it is made and used.

Things have certainly changed on our little island in the past few years. We no longer need the oil tankers to bring us oil. And we don't need electricity from the mainland. In fact, on very windy days we have so much power that we send our own electricity back through the cable under the sea for other people in Denmark to use! Samsø may be a small island, but we have made a difference in the world—reducing our carbon emissions by 140 percent in just ten years. And we did it by working together.



#### Saving Energy

One thing that will take a lot of pressure off our need for energy, both renewable and nonrenewable, is simply making an effort to save energy.

We waste huge amounts of power to keep warm in the winter and cool in the summer. Badly designed doors, windows, and walls mean our heating and cooling systems work harder than they should, and produce too much CO<sub>2</sub>. Building more efficient

heaters and coolers, along with more efficiently designed buildings, would greatly help us cut down on the problems of global warming.

We can also save fuel by building new cars, trucks, and machines that waste less energy. Taking a bus or a train is another great way to cut down on energy use. And riding your bike is even better! To save energy, we need to think about how we use it every day.

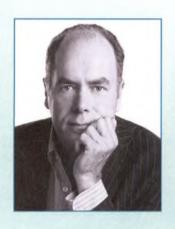


So that's how we got the name Energy Island! And what can you do to make a difference on *your* island? What's that? You say you don't live on an island? Well, maybe you *think* you don't live on an island, but actually you *do*. We all do. We're all islanders on the biggest island of them all—planet Earth. So it's up to us to figure out how to save it.

There's renewable energy all around us. We just need to work together to make the best use of it. Hold on to your hats!

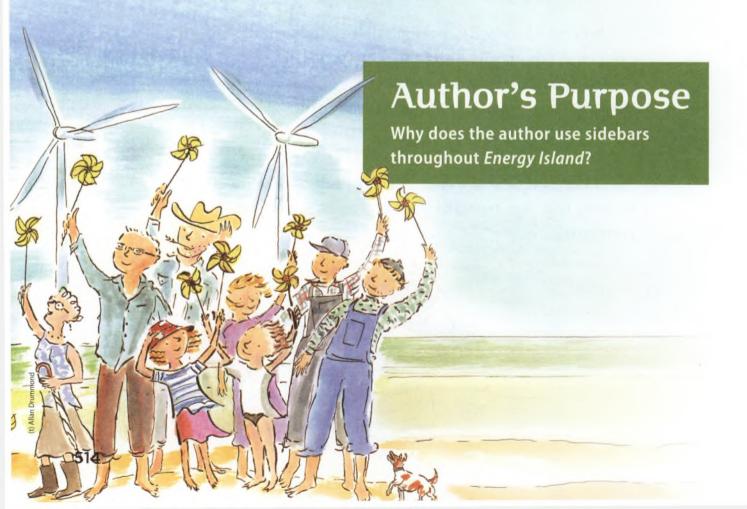


## ABOUT ALLAN DRUMMOND



If there is one thing that Allan Drummond has a surplus of, it's energy. He is an illustrator, a designer, a writer, and, like Søren Hermansen in *Energy Island*, a teacher. Drummond grew up in the United Kingdom and studied art in London. Before becoming an illustrator, he worked as a newspaper journalist. His murals

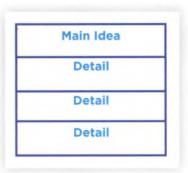
are seen every day by commuters in the Holborn subway station in London. Drummond also designed the Royal Mail's special millennium stamp. Today he teaches college students in Georgia about children's book illustration. Drummond has written and illustrated more than 25 books for young people, including *Solar City*, which tells about a community powered by sunlight.



## RESPOND TO READING

## **Summarize**

Use the most important details from *Energy Island* to summarize how a community harnessed the power of the wind. Information from your Main Idea and Key Details Chart may help you.



## **Text Evidence**

- 1. How can you tell that Energy Island is narrative nonfiction? GENRE
- 2. What is the main idea of "The Problem of Nonrenewable Energy" on page 501? Identify the details that support this main idea.
  MAIN IDEA AND KEY DETAILS
- **3.** Locate the word *biomass* on page 508. Use context clues to figure out its meaning. Explain how knowing the Greek prefix *bio* helps you. **LATIN AND GREEK PREFIXES**

Write about the various ways in which we can help save energy. WRITE ABOUT READING

## **Make Connections**

2

How did Samsø's residents come to use renewable energy resources? **ESSENTIAL QUESTION** 

Talk about some places around the world that could become energy-independent by using available renewable resources. **TEXT TO WORLD** 

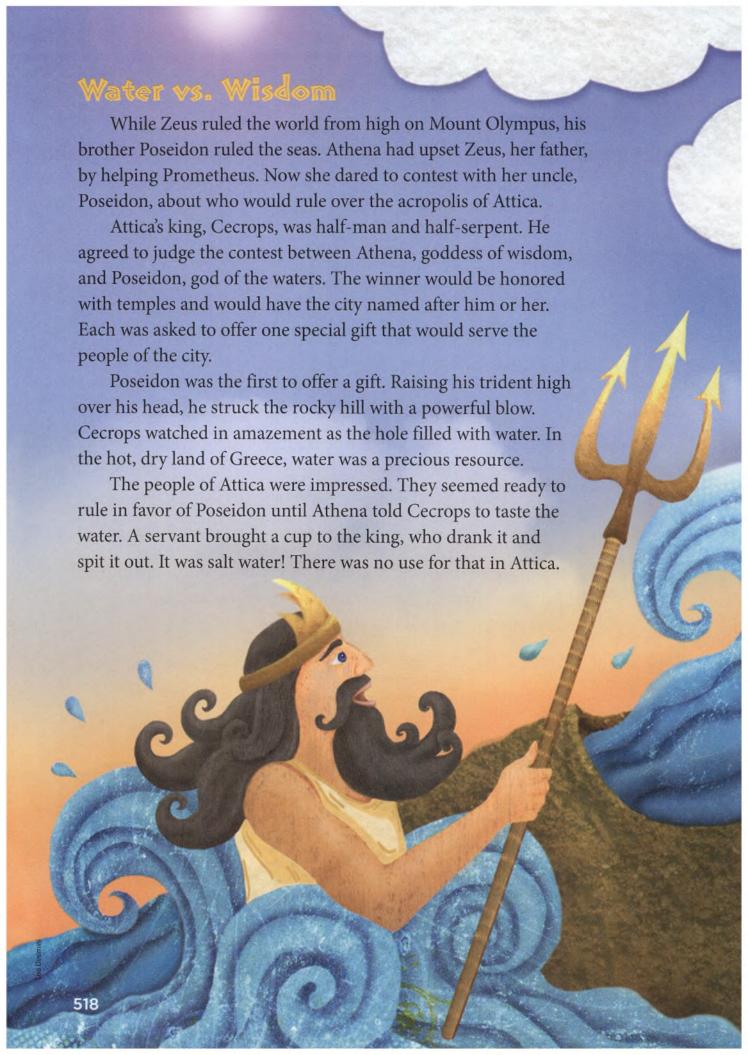
# Of Fire and Water

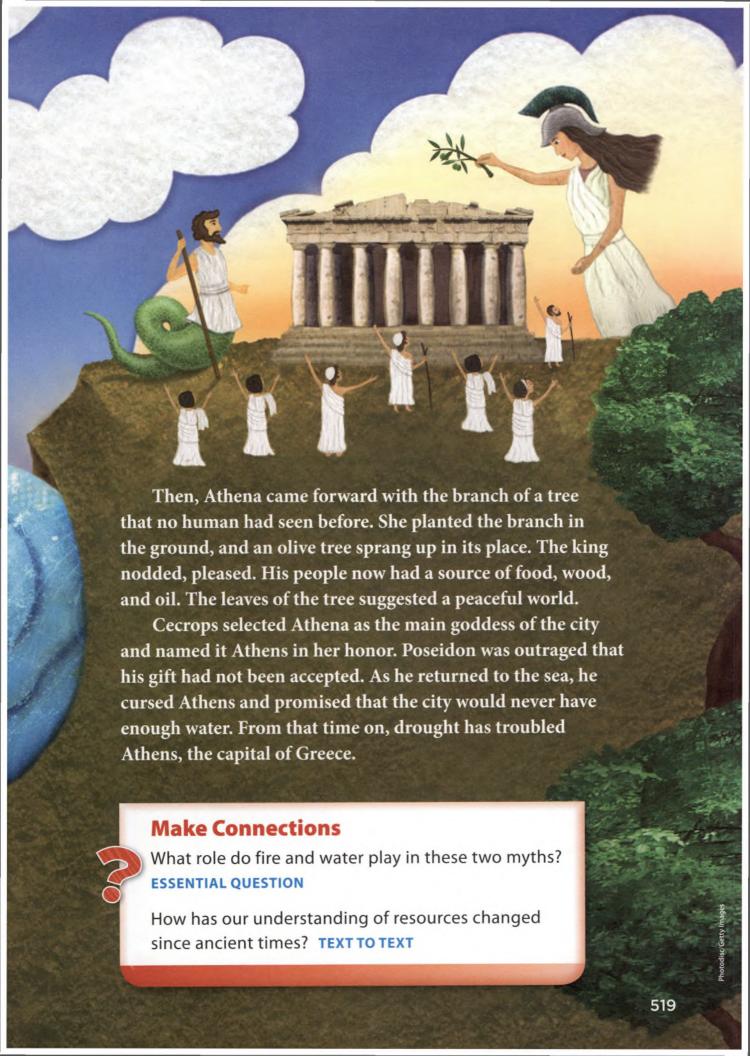
In ancient times people used myths to explain our world. The following myths give us a glimpse into how the ancient Greeks viewed two vital **renewable** resources, fire and water.

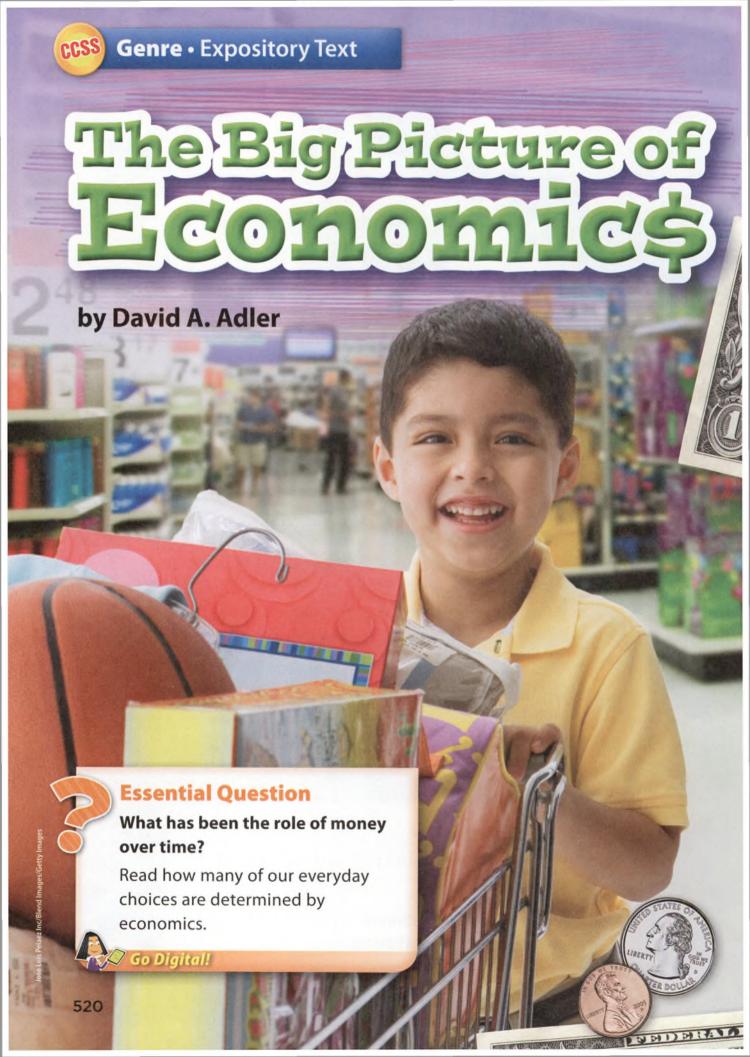
## The Gift of Fire

Long ago, trouble arose on Mount Olympus, where the Greek gods lived. Zeus, the ruler of the gods, became enraged with Prometheus, a Titan. After creating humans out of clay, Prometheus provided them with three gifts that Zeus wanted to reserve only for the gods: knowledge, bestowed on Prometheus by Athena; the ability to stand upright; and the potential to be noble. With these gifts humans could outsmart animals and could hunt for food, clothing, and shelter. To appease the angry Zeus, humans offered him abundant sacrifices. They kept little for themselves.

Prometheus thought this was wrong. He tricked Zeus into choosing a cleverly disguised sacrificial dish rather than a richer dish for his offering. The dish Zeus chose looked delicious on the outside, but within it consisted entirely of fat and bones. When Zeus realized the trick, he took fire away from humans. Prometheus pleaded with Zeus to change his mind, but Zeus forbade him to bring fire to humans. Prometheus watched his creations eat raw meat and shiver in the cold and dark. Finally, he went to Athena for help, and she led Prometheus to a hidden entrance to Mount Olympus where he could capture fire for humans. As the chariot of the sun god Helios passed by, Prometheus stole a spark and hid it inside a fennel stalk. He snuck away and gave people fire. Fury consumed Zeus when he learned what Prometheus had done. Zeus ordered the Titan to be chained to a rock. Each day, an eagle pecked at Prometheus's liver. Each night, the liver grew back. For generations Prometheus suffered. At last, the hero Heracles freed him from this torment by shooting a poisoned arrow at the eagle. From then on, as a reminder of his punishment, Zeus made Prometheus wear around his finger a piece of the rock to which he had been chained. Ever since, humans have worn rings as a symbol of their gratitude for the gift of fire.









**Money Matters** 

What is **economics**? It's the study of how people decide what to make and sell. It's also the study of why people buy some things and not others and of how items reach the **marketplace**—the place where people shop. The marketplace might be a corner grocery store, a large shopping mall, or a site on the Internet.

Now, put your hand in your pocket and take out a nickel, a quarter, or a dollar bill. It may be difficult to imagine, but there was a time before there was money. There was a time before people studied economics.

Thousands of years ago there was no money. People were self-sufficient, so they gathered and hunted for whatever food they needed, made their own tools, and built their own homes.





Some people were good hunters, and others were better at making baskets and clubs, so people traded. A hunter might trade an animal skin for some berries. But how many berries is an animal skin worth and what would the hunter do with all those berries?

People needed money—something that everyone would be willing to take in a trade and that could also be used to get the things they needed. People found that precious metals such as gold and silver made good money. Pieces of gold and silver came in all sizes, and you could weigh a piece to know how much it was worth. Then coins were made.



This ancient Chinese note is from the Ming Dynasty in the 14th century.

Coins didn't have to be weighed because people knew each coin's weight and how much it was worth.

A pocketful of coins is heavy, so paper money was invented. The first paper money was a printed promise that could be exchanged for gold or silver coins. Today few countries make gold and silver coins, but paper

money has value because you can use it to buy gold or silver. You can use it to buy bread, shoes, and other things, too.

STOP AND CHECK

#### **Ask and Answer Questions**

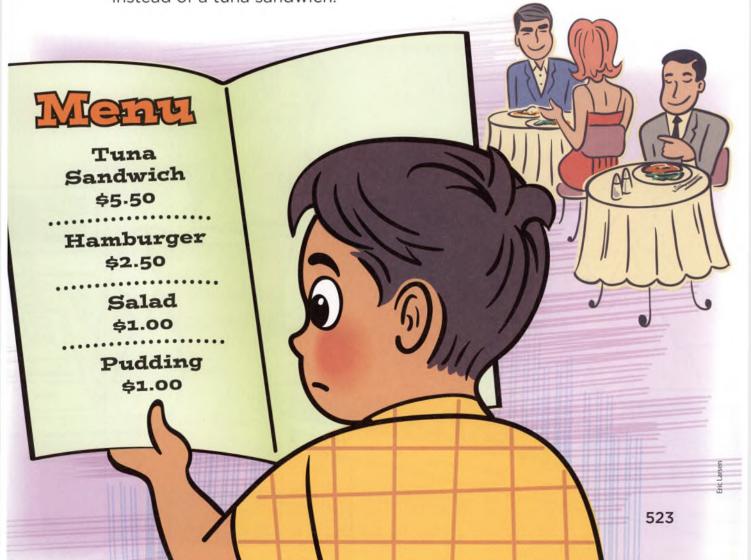
Why do people exchange money instead of berries or animal skin?

## You can learn a lot about economics at a restaurant

In a restaurant you'll see a menu with lots of things for sale. Each item has a price, which helps you decide what to buy.

You may not be sure whether you want a hamburger or a tuna sandwich. If you're really not sure, you might buy the one that costs less. Of course, the greater the difference in the prices, the greater the chance you'll buy what's cheaper. If a hamburger costs a dollar and a tuna sandwich costs ten dollars, it's likely you'll buy the hamburger.

Price might even convince people to buy something they didn't really want. Suppose you are in a restaurant and you are hungry for a tuna sandwich. You see the prices on the menu and realize that if you buy a hamburger instead of a tuna sandwich you'll have money left to buy a salad and pudding. Price might convince you to buy a hamburger instead of a tuna sandwich.



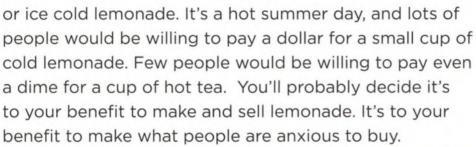
Now suppose you are walking past a restaurant. You aren't really hungry, but you see a sign in the window that says a hamburger costs just one dollar. At that price you might decide to buy one.

Of course, a high price would have the opposite effect. It might convince you not to buy something you really want. Suppose you are in a restaurant and you're really hungry for a tuna sandwich. You see that a tuna sandwich costs ten dollars, and you really want a tuna sandwich and not a hamburger. At ten dollars for a tuna sandwich you might decide to leave the restaurant and go to a grocery store where you can buy a can of tuna fish and some bread and make your own sandwich.



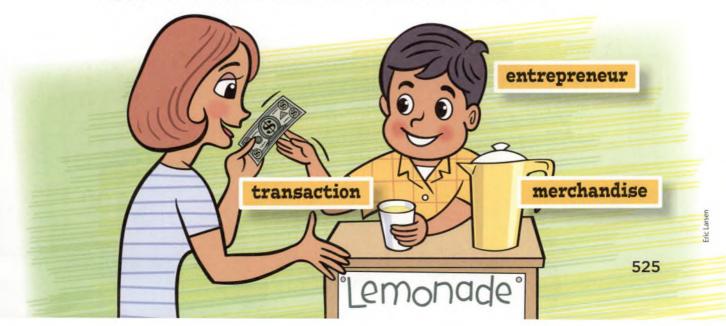
Price might help someone decide what to make and sell

Suppose you and your friends are walking through town and are suddenly thirsty. You search and find there's a scarcity of places in your neighborhood to buy a drink. Scarcity leads to opportunity and you decide to start your own business, to become an entrepreneur. You will set up a table in front of your house and sell drinks. Now you must decide what to sell—hot tea



Before you set up your business you'll have to **invest** in lemons, sugar, and paper cups. You'll have to spend money even before your very first **transaction**, your very first sale. You'll spend time making the drinks, and that time is a cost, too. It's your opportunity cost. During the time you're making lemonade you've lost the opportunity to be doing something else.

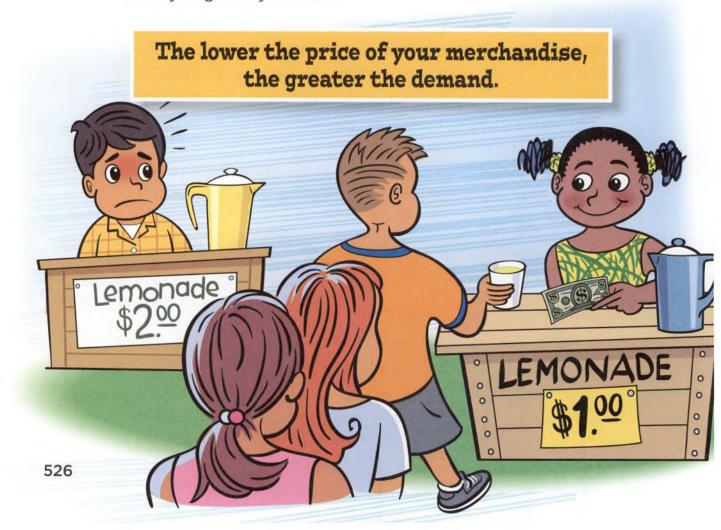
The lemonade you make is your **merchandise**. It's your supply. The people who come to buy it are the demand.



## **The Laws of Supply and Demand**

According to one old proverb, "The worth of a thing is what it will bring." The value of your merchandise is determined by how much you can get for it on the open market, and that is determined by the laws of supply and demand. If you expect lots of thirsty people to pass your lemonade stand, you might make lots of lemonade, and if you did, you'd have lots of supply. If few people come by, you would have very little demand. What would you do? You might be anxious to sell the drinks and decide to lower the price. Lowering the price will probably increase the demand.

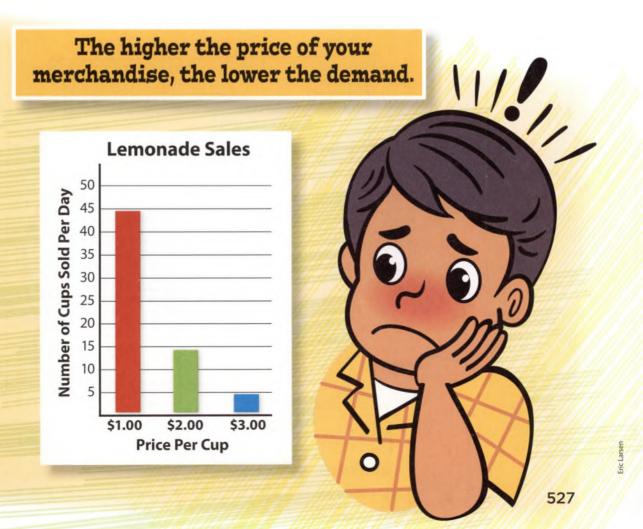
Few people might be willing to pay two dollars for a cup of lemonade. More people might buy some for just a dollar a cup, and lots of people might buy lemonade at just fifty cents a cup. The lower the price, the greater the demand will be, and if the price of your lemonade is low enough, someone who planned to buy only one cup might buy a second and even a third cup. Someone who isn't even thirsty might buy a drink.



If you only bought a few lemons and made just a small pitcher of lemonade you would have very little supply. What if there's lots of demand, lots of people who are thirsty and want to buy a drink? Perhaps at one dollar a cup you could quickly sell all the drinks, but you might want to raise the price. At two dollars a cup your supply won't sell as quickly, but you'll make much more money on each cup you sell.

In a country with a free market, such as the United States, people can charge whatever they want for the things they sell. In a free market—as supply goes up, prices go down, and as supply goes down, prices go up. In a free market—as demand goes up, prices go up, and as demand goes down, prices go down. Those are the laws of supply and demand.

What's the best price for lemonade? The best price is low enough for people to want to buy some and high enough for you and perhaps others to want to make and sell it.



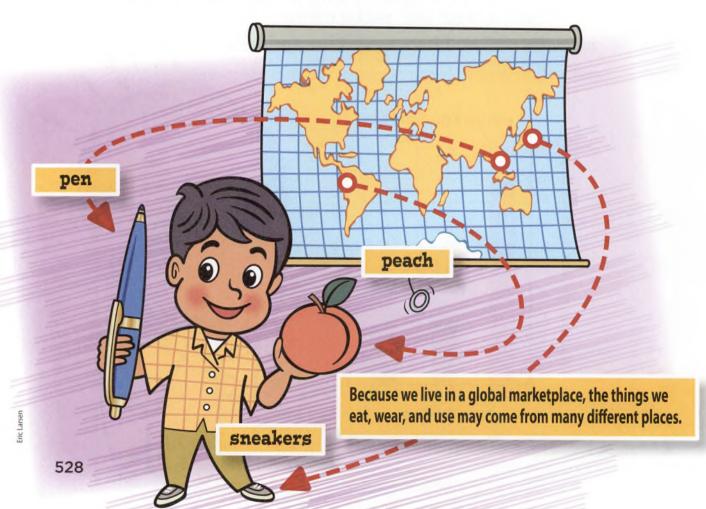
## The Global Marketplace

In the United States people in one state buy products made in other states—even in other countries—and we sell things to people in other states and countries. The world we live in is truly a **global** marketplace.

The pen you use to write your homework may have been made in China, and the sneakers you wear to school every day may have been made in Japan. The peach you ate for lunch may have been grown in Brazil.

Foreign trade is the exchange of goods and services between people here and in other countries. Of course, when we sell our products to people in other countries we might not be paid in dollars.

In the United States we use dollars and cents to buy things, but people in other countries use different **currency**, different money. In Mexico people use pesos and centavos. In Europe they use euros. In Russia they use rubles and kopeks, in China yuan, in Brazil reals and centavos, in Japan yen, and in India rupees.



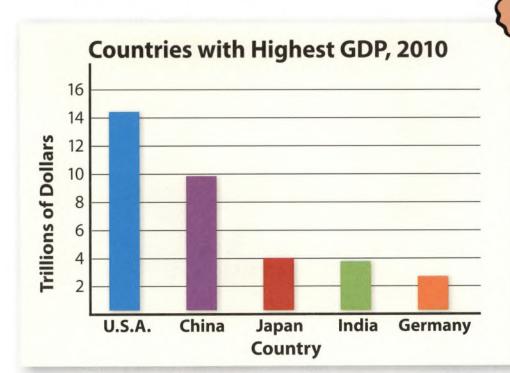




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It is said that "Money is power." This tells us a lot about our global marketplace. Around the world, the richest countries are also the most powerful. But how did they get this way? The answer is economics. Understanding how our global marketplace works explains why so many people study economics. Economics helps us understand how people live, how they sell, buy, and trade things, how they decide what to grow on their land and what to produce in their factories.

Many of the things we, our families, and our friends do—from buying a hamburger to taking a vacation to trading video games—are determined by economics. Many of the choices you make today and in the future—even what to buy in a restaurant—will be determined by economics.



The overall value of a country's total goods and services is its GDP, or "Gross Domestic Product." It is usually calculated annually.

## About the Author



**David A. Adler** got the big picture on economics in college—it was his major! After graduation, he taught mathematics for nine years in the New York City school system. During that time, he earned a little money on the side drawing and selling cartoons. His first book, A Little at a Time, was inspired by his three-year-old nephew's questions. Since then, he has published more than 200 books, including the popular Cam Jansen series. If David is inspired or fascinated by something, it's likely to become his next writing project!



## Respond to Reading

## Summarize

Summarize *The Big Picture of Economics*. Use information from your Main Idea and Key Details Chart to help you.

Main Idea

Detail

Detail

Detail

## **Text Evidence**

- How do you know that The Big Picture of Economics is an expository text? GENRE
- 2. Explain how going to a restaurant can help you understand economics. Use details from the selection to support your response. MAIN IDEA AND KEY DETAILS
- 3. What does the proverb "The worth of a thing is what it will bring" mean? Use context clues on page 526 to help you.

**PROVERBS AND ADAGES** 

4. Write about how a free market economy works.

WRITE ABOUT READING



#### **Make Connections**

How does economics affect everyday choices?

ESSENTIAL QUESTION

Why is money important to people? TEXT TO WORLD

## **Compare Texts**

Read how a poor miller becomes wealthy.

# The Miller's Good Luck

Libor and Vidal, two wealthy friends, had an ongoing argument. Did wealth come mainly from good luck or hard work?

"Luck is most important," declared Libor.

He had become a wealthy **entrepreneur** after winning money in a contest.

"No, work hard and plan ahead—that's the way to wealth," Vidal replied. "'No pain, no gain' is what I always say." He had toiled, saved, and invested wisely, and now owned a vast farm.

The friends decided to test their beliefs.

One day, on the way to the marketplace to sell merchandise, they encountered Pedro, a poor miller who barely earned enough money grinding grain to feed his family. They gave Pedro 100 pesos to use as he pleased.

Pedro immediately bought meat for his family, but on his way home, a hawk swooped down to steal the meat. Pedro clutched the food, and the hawk flew off with a bag containing the remainder of the money.

Two weeks later, the men visited Pedro's mill and refused to believe what had happened. Libor handed Pedro a heavy piece of lead. Laughing cruelly, he said, "Here, take this worthless lead weight; no one will steal it."

Discouraged, Pedro gave the lead weight to a fisherman, who in exchange gave Pedro the first fish he caught. When Pedro's wife cut open the fish to clean it, she found a diamond in its stomach, which Pedro sold for a large sum. He used the money to expand his mill. Working harder than ever, he soon found himself milling grain for all the farmers in the area.

One year later, Libor and Vidal saw how prosperous Pedro had become. When the miller told them about the diamond, Libor nodded. "You became wealthy through luck."

"But if I hadn't worked every day from dawn until dusk, I could have lost everything," said Pedro.

Vidal nodded. "Yes, wealth results from hard work and planning."

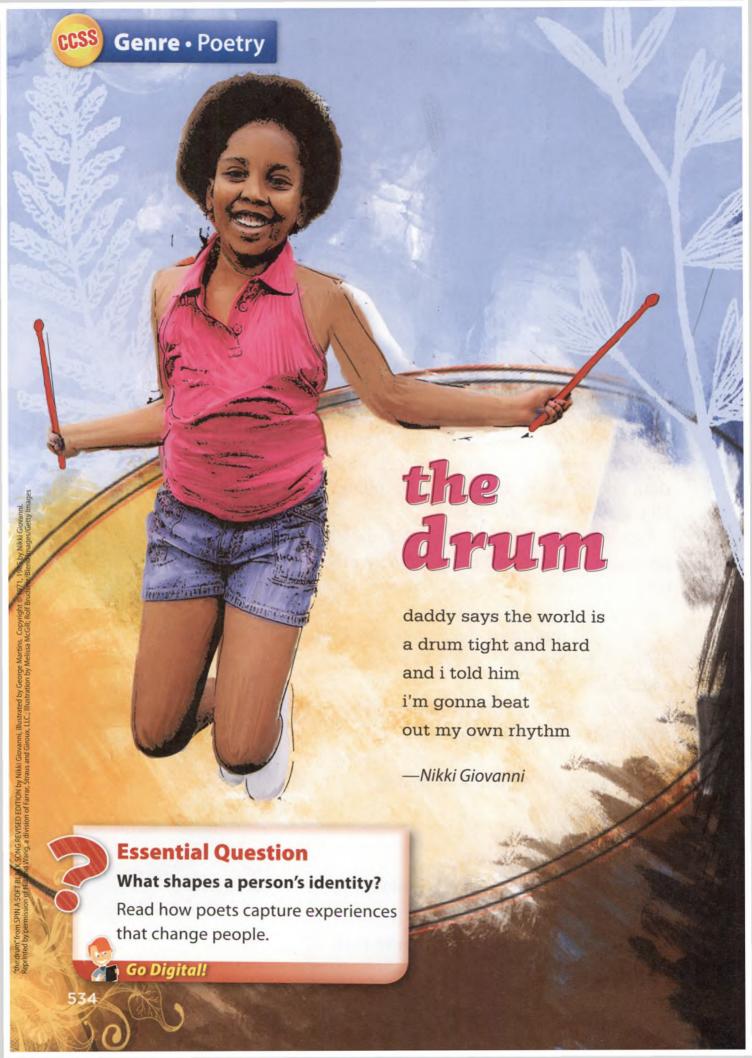
In the end, the two men could never agree about the true key to wealth.

## **Make Connections**

How does Pedro become wealthy?

ESSENTIAL QUESTION

Why does money matter? TEXT TO TEXT



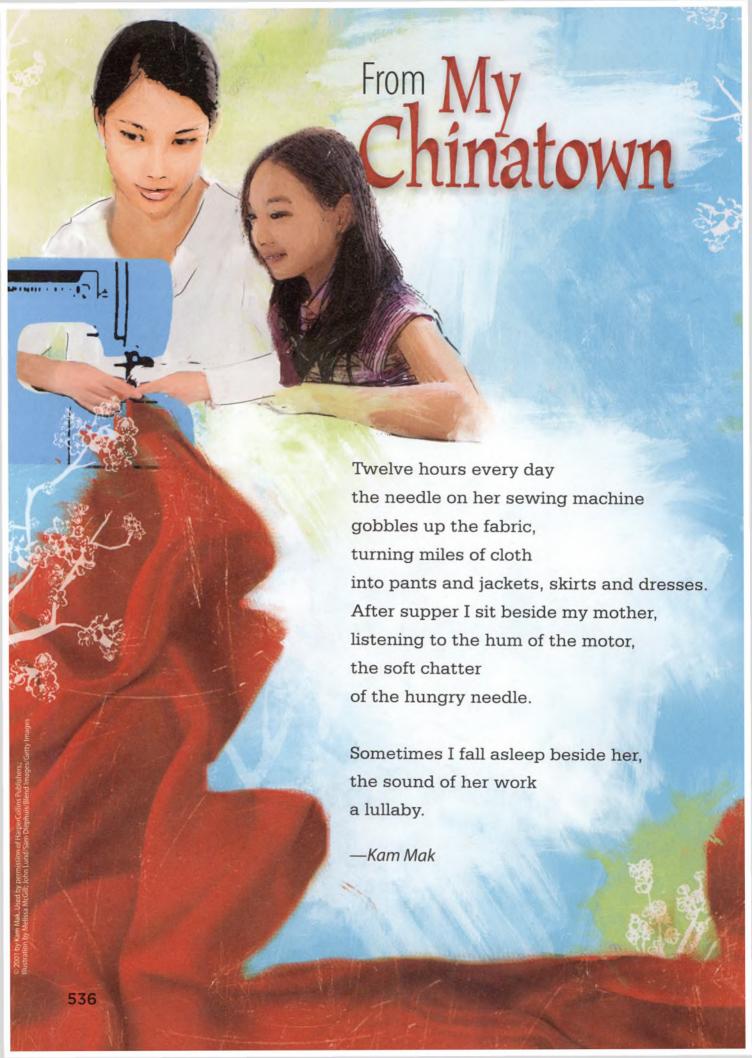
# BIRDFOOT'S GRAMPA

The old man
must have stopped our car
two dozen times to climb out
and gather into his hands
the small toads blinded
by our lights and leaping,
live drops of rain.

The rain was falling,
a mist about his white hair
and I kept saying
you can't save them all,
accept it, get back in
we've got places to go.

But, leathery hands full of wet brown life, knee deep in the summer roadside grass, he just smiled and said they have places to go to too.

—Joseph Bruchac



## Respond to Reading

## Summarize

Use important details in the excerpt from "My Chinatown" to summarize what happens in the poem. Information from your Theme Chart may help you.



## Text Evidence

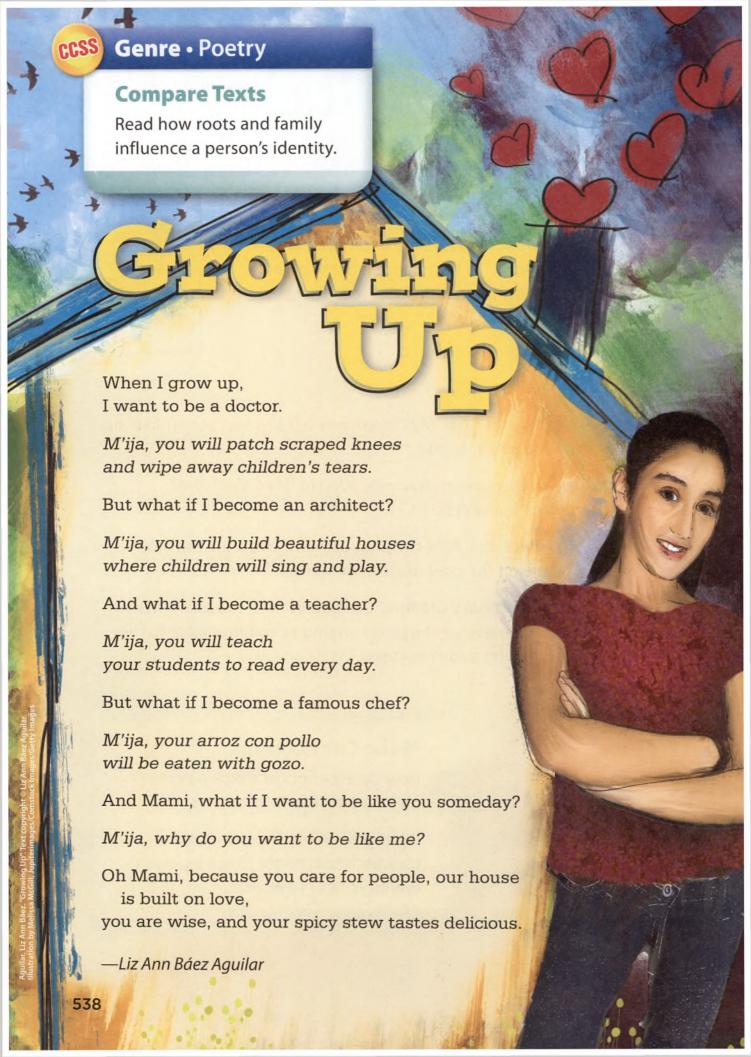
- 1. Is the excerpt from "My Chinatown" a free-verse poem? Explain how you know. GENRE
- 2. Give an example of personification in "My Chinatown."

  LITERARY ELEMENTS
- 3. What metaphor does the poet use in "the drum"? Explain the comparison the poet makes. METAPHOR
- 4. Reread "Birdfoot's Grampa." Use details from the poem to write about the message the poet is trying to communicate to the reader. WRITE ABOUT READING

## Make Connections How do experiences shall

How do experiences shape a person's identity? **ESSENTIAL QUESTION** 

What are some other customs or traditions that might shape a person's identity? **TEXT TO WORLD** 





The night is beautiful, So the faces of my people.

The stars are beautiful, So the eyes of my people.

Beautiful, also, is the sun.

Beautiful, also, are the souls of my people.

—Langston Hughes

#### **Make Connections**

What are some ways that family impacts a person's identity? **ESSENTIAL QUESTION** 

Why are a person's roots important?

TEXT TO TEXT

# Glossary

A glossary can help you find the meanings of words in a book that you may not know. The words in the glossary are listed in alphabetical order.

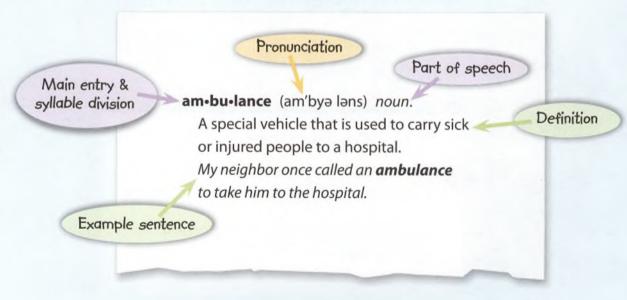
#### **Guide Words**

Guide words at the top of each page tell you the first and last words on the page.



#### **Sample Entry**

Each word is divided into syllables. The way to pronounce the word is given next. You can understand the pronunciation respelling by using the pronunciation key. Sometimes an entry includes a second meaning for the word.



#### **Pronunciation Key**

You can understand the pronunciation respelling by using this pronunciation key. A shorter key appears at the bottom of every other page. When a word has more than one syllable, a dark accent mark (') shows which syllable is stressed. In some words, a light accent mark (') shows which syllable has a less heavy stress.

Phonetic Spelling	Examples	Phonetic Spelling	Examples
a	at, bad, plaid, laugh	d	dear, soda, bad
ã	ape, pain, day, break	f	five, defend, leaf, off, cough,
ä	father, calm		ele <b>ph</b> ant
âr	care, pair, bear, their, where	g	game, ago, fog, egg
е	end, pet, said, heaven, friend	h	hat, ahead
ē	equal, me, feet, team, piece, key	hw	white, whether, which
i	it, big, give, h <b>y</b> mn	j	joke, enjoy, <b>g</b> em, pa <b>g</b> e, e <b>dge</b>
ī	ice, fine, lie, my	k	<b>k</b> ite, ba <b>k</b> ery, see <b>k</b> , ta <b>ck</b> , <b>c</b> at
îr	ear, deer, here, pierce	1	lid, sailor, feel, ball, allow
О	odd, hot, watch	m	<b>m</b> an, fa <b>m</b> ily, drea <b>m</b>
Ō	old, oat, toe, low	n	not, final, pan, knife, gnaw
ô	coffee, all, taught, law, fought	ng	long, singer
ôr	order, fork, horse, story, pour	р	pail, repair, soap, happy
oi	oil, toy	r	ride, parent, wear, more, marry
ou	out, now, bough	S	sit, aside, pets, cent, pass
u	up, mud, love, double	sh	shoe, washer, fish, mission, nation
ū	use, mule, cue, feud, few	t	tag, pretend, fat, dressed
ü	rule, true, food, fruit	th	thin, panther, both
ù	p <b>u</b> t, w <b>oo</b> d, sh <b>ou</b> ld, l <b>oo</b> k	<u>th</u>	these, mother, smooth
ûr	burn, hurry, term, bird, word,	V	<b>v</b> ery, fa <b>v</b> or, wa <b>v</b> e
	c <b>our</b> age	w	wet, weather, reward
ə	about, taken, pencil, lemon, cîrcus	У	yes, onion
b	<b>b</b> at, a <b>b</b> ove, jo <b>b</b>	Z	zoo, lazy, jazz, rose, dogs, houses
ch	chin, such, match	zh	vi <b>si</b> on, trea <b>s</b> ure, sei <b>z</b> ure

# Aa

- ac-cel-er-ate (ak sel'ə rāt') verb. To cause an object to move faster. In order to accelerate the car, you have to step on the gas pedal.
- **ac·com·pa·nies** (ə kum'pə nēz) *verb*. Goes along with. *My mother always accompanies* me to the doctor's office.
- ac-count-a-ble (ə koun'tə bəl) adjective.
  Responsible; liable to be called to account.
  The person who threw the baseball is
  accountable for the damage to the window.
- ac-quaint-ance (ə kwān'təns) noun.

  A person one knows who is not a close friend. Since she is only an acquaintance, she is not coming to my party.
- ad-dress noun. 1. (ə'dres) An official speech.

  The President's address to the nation was detailed and motivating. 2. (ad'res) The place where someone or something is located. What is your address?
- ad-vance-ments (ad vans'ments) plural noun. Improvements or progress. Scientific advancements have led to new research on the human mind.
- ad-van-tage (ad van'tij) noun. Something that is useful or helpful; benefit. My height was an advantage on the basketball court.
- **ad-vise** (ad vīz') verb. To give an opinion or advice to. I asked my teacher to **advise** me about which classes to choose.

- **ag-ri-cul-ture** (ag'ri kul'chər) *noun*. The business of producing crops and farm animals; farming. **Agriculture** is the one of the most popular businesses in the country.
- **al-ter** (ôl'tər) *verb*. To make different; to change. I needed to **alter** my weekend plans when my best friend got sick.
- **a-mend-ments** (ə mend'mənts) plural noun. Formal changes made to laws or official documents. There were many **amendments** made to the Constitution.
- an-ces-tors (an'ses tərz) plural noun.
  People from whom one is descended. My ancestors came over on the Mayflower.
- an·noyed (ə noid') adjective. Bothered; irritated. The annoyed woman left the library when the people around her began to talk.
- ar-chae-ol-o-gy (är'kē ol'ə jē) noun. The study of the way humans lived in the past. If you study archaeology, you will learn how ancient people lived.
- **as-signed** (ə sīnd') verb. Gave out as a task. Each student was **assigned** a different topic for the project.
- as-tron-o-mer (ə stron'ə mər) noun.
  An expert who studies the sun, moon, stars, and planets. The astronomer provided us with information about the phases of the Moon.
- **at-tain** (ə tān') *verb*. To achieve through work or effort. *I am trying to attain high honors on my report card*.

- at-ti-tude (at'i tüd') noun. A way of thinking or acting. You have a wonderful attitude towards school.
- **at-tract-ed** (a trak'tid) verb. Drew the attention of. The bee was **attracted** to the beautiful flowers in the garden.

# Bb

- **bou-quet** (bō kā') *noun*. A gathering of picked flowers. The bride carried a **bouquet** of her favorite flowers.
- boy-cott (boi'kot) 1. verb. To join others in refusing to do business with a person or organization. The politician decided to boycott with the community against the raising of rent. 2. noun. A planned joining with others in refusing to do business with a person or organization. My father joined the boycott against the giant department store chain.
- **brain-storm** (brān'stôrm') *verb*. To attempt to solve a problem through a group discussion. The manager had to **brainstorm** all afternoon on ways to attract new customers.
- **brit-tle** (brit'əl) *adjective*. Very easily broken. While walking through the woods, a **brittle** twig snapped underneath my foot.

### Cc

- **cam-ou-flaged** (kam'ə fläzhd) *verb*. Hid by blending in to its surroundings. *The* chameleon **camouflaged** itself to look like the tree trunk.
- **cam-paign** (kam pān') *noun*. A series of planned steps carried out towards a particular goal. The presidential candidate had volunteers help with her **campaign**.
- ca·pa·bil·i·ties (kā'pə bil'i tēz) plural noun.

  Qualities or abilities. The young man
  had many capabilities as an athlete and
  honor student.
- **cau-tious-ly** (kô'shəs lē) *adverb*. Carefully, watchfully. The young child **cautiously** crossed the street for the first time alone.
- char-ac-ter-is-tics (kar'ik tə ris'tiks) plural noun. Qualities or features that help identify a person or thing. Being generous is one of Maria's many fine characteristics.
- **cling** (kling) *verb*. To stick closely, as if glued. *Small children often cling* to their mothers.
- **co-in-ci-dence** (kō in'si dəns) *noun*.

  A remarkable, unplanned happening of two events at the same time. It was such a **coincidence** to bump into my best friend at the concert.

at; āpe; fär; câre; end; mē; it; īce; pîerce; hot; ōld; sông; fôrk; oil; out; up; ūse; rüle; pull; tûrn; chin; sing; shop; thin; this; hw in white; zh in treasure.

- col·lapse (kə laps') verb. To fall down; cave in. Stand back, the building might collapse!
- **com-mit-ment** (kə'mit mənt) *noun*. Sense of obligation to someone or something. When two people get married, they make a **commitment** to one another.
- com·mo·tion (kə mōsh'ən) noun. A noisy confusion. There was a lot of commotion in the class when the bird flew in the window.
- com-pas-sion-ate (kəm pash'ə nit)

  adjective. Showing feeling or sympathy
  towards others. My grandmother was one
  of the most compassionate people I have
  ever known.
- com-ple-men-ta-ry (kom plə men'tə rē)
  adjective. Making complete or whole.
  The umbrella was complementary to my
  rain gear.
- **com-pro-mise** (kom'prə mīz') verb. To reach an understanding by agreeing each side will give up some parts of its demands. We had to **compromise** on where to go on vacation this year.
- **con-cerns** (kən sûrns') plural noun. Serious worries or interests. The parent shared his **concerns** about the child's poor behavior.
- con-se-quen-ces (kon'si kwans ez) plural noun. The results of an action or event; outcomes. If you do not do your homework, you will suffer the consequences.
- con·sume (kən süm') verb. 1. To use up. The project will consume a lot of my free time.
  2. To eat or drink up. Did they consume all the snacks already?

- con-vert-ed (kan vûr'tid) verb. Changed in condition or usage. We converted the garage into an apartment.
- **crank-y** (krang'kē) *adjective*. Irritable; grouchy. *The* **cranky** baby desperately needed a nap.
- **cre-a-tive** (krē ā'tiv) adjective. Having the power to do something in a new or imaginative way. The **creative** artist designed a unique sculpture.
- **cres-cent** (kres'ənt) *noun*. The shape of the Moon when you can only see the thin, curved part. A moon shaped like a **crescent** is used as a design on many countries' flags.
- **cri·sis** (krī'sis) *noun*. A dangerous or difficult situation for a period of time. *People often depend on a strong leader in times of crisis*.
- **crum-bled** (krum'bəld) *verb*. Broke into small pieces. *I crumbled* pieces of stale bread for the birds.
- **cur-ren-cy** (kûr'ən sē) *noun*. The money that is used in a specific country. The **currency** of the United States is different from that of Mexico.

# Dd

- dan-gling (dang'gling) verb. Hanging loosely. The kitten was dangling from the tree limb.
- daz-zling (daz'ling) adjective. Extremely bright and splendid. The model had dazzling white teeth.

- **dec-ade** (dek'ād) noun. A time period of ten years. She has been working at the bank for over a **decade**.
- de-moc-ra-cy (di mok'rə sē) noun.
  A government that is run by the citizens who live within it. Since the family wanted to live in a democracy, they left their home country.
- de·picts (di pikts') verb. Shows in pictures or words. The story depicts life in eighteenthcentury England.
- de-scrip-tive (di skrip'tiv) adjective.

  Providing a picture in words. Mary's

  descriptive essay about her vacation was so
  detailed that I felt as if I went with her.
- des-per-ate-ly (des'pə rit lē) adverb.
  Recklessly because of having no hope. She desperately held on to the lifeboat.
- **de-spised** (di spīzd') verb. Looked at with hatred or unpleasantness. It was clear she **despised** liars.
- **de-struc-tion** (di struk'shən) noun. Serious damage or ruin. The **destruction** from the earthquake was a devastating sight.
- de-test-ed (di tes'tid) verb. Disliked very much; hated. I detested shoveling the heavy snow during the snowstorm.
- di-rect-ing (di rekt'ing) verb. Giving orders or instructions. The principal was always directing the students where to go.

- **dis-a-greed** (dis'ə grēd) verb. Differed in opinion. The lawyers **disagreed** about the verdict of the case.
- dis-card-ed (dis'kärd id) verb. Threw aside as worthless; rejected. While sorting through my winter clothes, I discarded some worn shirts.
- dis-solves (di zolvs') verb. Mixes a solid thoroughly with a liquid so that eventually it becomes liquid. The hot cocoa powder dissolves in the hot water.
- **di-vid-ed** (di vī'did) 1. verb. Split into parts or pieces. The two children **divided** the pizza pie in half. 2. adjective. Separated. The president brought together a **divided** nation.
- **diz-zy** (diz'ē) *adjective*. Having the feeling of spinning or being about to fall. *The* young girl got **dizzy** after spinning around in a circle.
- doc-u-ment (dok'yə mənt) 1. verb. To record something with facts and evidence. The teacher made sure to document the student's progress. 2. noun. A written and official piece of information about something. A birth certificate is an important document.
- drib-bles (drib'əls) 1. verb. Flows or trickles, usually from mouth. The teething baby dribbles all over his clothes. 2. Bounces a ball. The basketball player dribbles the ball down the court.

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**droughts** (drouts) *plural noun*. Long periods of time with little or no rain. *The crops had a hard time surviving because of the droughts*.

### Ee

- ec-o-nom-ics (ek ə nom'iks) noun. The study that deals with how money, goods, and services are produced, distributed, and used among people. Since my college major is business, I am taking classes on economics.
- ec·o·sys·tem (ē'kō sis'təm) noun. All nonliving and living things in a particular area. Plants, water, fish and dolphins are just some of the things in an ocean's ecosystem.
- **ef-fi-cient** (i fish'ənt) adjective. Able to get the results wanted with little effort or time. The **efficient** student finished the assignment before it was due.
- **eld-est** (el'dist) *adjective*. Born first; oldest. She is the **eldest** of eight children.
- e-mo-tion (i mō'shən) noun. A strong feeling, such as love, hate, sorrow, happiness, or fear. I could not contain my emotion of joy when I won the race.
- en-cir-cle (en sûr'kel) verb. To form a circle around; to surround. The cats tried to encircle the mouse.
- en-cour-age-ment (en kûr'ij mənt) noun.
  The act of supporting and giving hope or confidence. Thanks to the encouragement of my teacher, I passed the test.

- en-dur-ance (en dur'ans) noun. The power to put up with hardships or difficulties.

  Pioneers showed much endurance when they traveled west.
- en-gi-neer-ing (en'jə nîr'ing) noun. The work that uses scientific knowledge for practical things. Skyscrapers are an amazing feat of engineering.
- en-ter-prise (en'tər prīz) noun. A difficult and important project a person plans to do. The inventor started an enterprise with her new creation.
- en-tre-pre-neur (än'trə prə nur') noun.

  One who organizes and runs a business.

  A young entrepreneur opened a new computer business in our neighborhood.
- e-ra (er'ə) noun. A time period throughout history marked by events, people, things, or conditions. Wolfgang Amadeus Mozart was the most important person in that era of classical music.
- e-ven-tu-al-ly (i ven'chü ə lē) adverb. Finally; in the end. I eventually finished reading the very long book.
- ev-i-dence (ev'i dəns) noun. Proof or sign of something. The detectives looked for evidence at the scene of the crime.
- ex-cep-tion-al (ek sep'shə nəl) adjective.
  Not ordinary; extraordinary. An acrobat has exceptional talent.
- ex-pe-di-tion (ek'spi dish'ən) noun.
  A journey made for a specific reason. The scientist made an expedition to the Arctic to study the wildlife.

- ex-per-i-ment (ek sper'ə mənt) noun. A test done to discover something of a scientific nature by watching results very carefully. As part of the science fair, I did an experiment about plant life.
- ex-press (ek spres') 1. verb. To say or put into words. Please stop crying and express your feelings with your words. 2. adjective. Having to do with fast transportation or delivery. I was lucky to catch the express train that brought me straight to the city.
- **ex-tinct** (ek stingkt') adjective. No longer in existence. Dinosaurs were animals that lived long ago but are now **extinct**.
- ex-tra-or-di-nar-y (ek strôr'də ner'ē)

  adjective. Very unusual; remarkable. The

  class put on an extraordinary performance
  of Romeo and Juliet.

# Ff

- **fab-ric** (fab'rik) *noun*. A cloth material that is knitted or woven. *My grandmother made a beautiful dress from a shiny fabric.*
- **fa-mil-iar** (fə mil'yər) *adjective*. Well-known because of having been seen or heard before. *That woman looks very familiar*.

- **flat-tened** (flat'ənd) verb. Made or became flat. The chef **flattened** the dough to make a pizza.
- **flour-ished** (flûr'ishd) verb. Grew strongly; thrived. The tomato plants **flourished** despite the drought.
- for-feit (fôr'fit) verb. To lose or have to give up because of a fault, accident, or mistake. The football team had to forfeit the game when their bus broke down.
- **frag·ile** (fraj'əl) adjective. Easily broken; delicate. The crystal bowl is very **fragile**, so please handle it with care.
- **fran-ti-cal-ly** (fran'tik lē) *adverb*. With strong emotion because of worries or fear. *She* **frantically** searched for her missing beagle in the park.
- **fric-tion** (frik'shən) *noun*. A force that slows or stops movement between two surfaces. The **friction** between my rollerblades and the grass slowed me down.
- **frus-tra-ted** (frus'trā tid) adjective.

  Disappointed in being prevented from doing something. I became very **frustrated** when I could not solve the math problem.
- **ful-fill** (ful fil') verb. To finish or carry out. The generous woman wanted to **fulfill** the needs of the children in the shelter.

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**funds** (fundz) *plural noun*. Amounts of money set aside for a specific purpose.

Our parents used their **funds** to take us on summer vacation.

**fuss·y** (fus'ē) adjective. Picky; hard to please. The **fussy** baby would not eat his food.

# Gg

- **gen-er-os-i-ty** (jen'ər os'i tē) *noun*. The characteristic of being willing to share or give freely. The millionaire showed his **generosity** by donating money to the charity.
- **gen-u-ine** (jen'ū in) adjective. Being what it seems to be; real. The boots were made out of **genuine** leather.
- **gin-ger-ly** (jin'jər lē) adverb. Carefully; in a cautious manner. I **gingerly** walked across the frozen pond.
- **gleam-ing** (glēm'ing) verb. Shining; reflecting bright light. Her earrings were **gleaming** in the sunlight.
- **global** (glō'bəl) adjective. Relating to the world; worldwide. With customers all over the world, Jane's business has truly become **global**.
- **gob-ble** (gob'əl) verb. To eat something quickly in large chunks. The dog could not wait to **gobble** up his treats!
- **gov-er-nor** (guv'ər nər) *noun*. The person elected to be the head of a state government in the United States. *The* **governor** took office last week.

- **gra-cious** (grā'shəs) *adjective*. Showing kindness and good manners. The **gracious** quests thanked their host for the invitation.
- **grav-i-ty** (grav'i tē) *noun*. The force that pulls things to the center of the earth and causes items to fall when they are dropped. Due to **gravity**, people and objects remain on the surface of the earth.
- greed (grēd) noun. A selfish desire to want more than one has. His greed for money became obvious when he overcharged his customers.
- **grit-ty** (grit'ē) adjective. Containing small bits of small sand or stone. The cement mix looked very **gritty** in the pail.



**haste** (hāst) *noun*. Hurry; quickness in movement. We left the house in great **haste** so we would not miss our plane.

haz·ard (haz'ərd) noun. Something that can cause danger or harm. The icy road was a hazard to drivers.

hes-i-tat-ed (hez'i tā'tid) verb. Waited or stopped a moment; paused. The dog hesitated before chasing the rabbit through the yard.

**hi-lar-i-ous** (hi lâr'ē əs) adjective. Very funny. The **hilarious** comedian made fun of himself.

**honest** (on'ist) adjective. Truthful. Please be **honest** with me.

- **hon-or** (on'ər) verb. To show or regard with great respect. The monument was built to **honor** our troops.
- **hov-er-ing** (huv'ər ing) verb. Staying in the air over one place. The eagle is **hovering** over its prey.
- hu·mid (hu'mid) adjective. Containing a lot of water vapor in the air; moist. On humid days, I usually go for a swim in my pool.
- **hu-mil-i-at-ed** (hū mil'ē ā'tid) *adjective*. Made someone feel ashamed. *I felt humiliated* when my little sister sang in public.



- **i-den-ti-ty** (ī den'ti tē) noun. Who or what a person or thing is. The masked man took off his disquise to reveal his **identity**.
- ig-nored (ig nôrd') verb. Refused to pay attention to. The principal ignored my question during the assembly.
- im-bal-ance (im bal'ans) noun. Lack of balance; unsteadiness. The scale showed the imbalance of the two objects.
- in-cred-i-ble (in kred'ə bəl) adjective.
  Impossible or hard to believe. It is incredible to look at how technology has changed over the last decade.

- in-di-vid-u-al-i-ty (in'də vij ü al'i tē) noun.

  A characteristic that makes one person or thing different from another. Even though the girls were identical twins, they still showed their individuality through their clothes.
- in-her-it (in her'it) verb. 1. To receive property or money after a person has died. Since the millionaire passed away, his nephew is to inherit his riches. 2. To get from one's parent or parents. I was lucky enough to inherit my mother's blue eyes.
- in-jus-tice (in jus'tis) noun. Unfairness; something that is not right. Many people protested against racial injustice during the Civil Rights Movement.
- in-no-va-tive (in'ə vā'tiv) adjective.
  Introducing a new idea. The innovative idea led to a new business venture.
- in-quir-y (in kwīr'ē) noun. A search for knowledge or information. A scientific inquiry will often lead one to experiment.
- in-spi-ra-tion (in'spə rā'shən) noun. A bright, sudden idea. I got a stroke of inspiration and wrote a poem.
- in-stalled (in stôld') verb. Put in place for service or use. The contractor installed the new dishwasher.
- **in-tend** (in tend') verb. To have in mind as a purpose. I **intend** to be on time for class.

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- in-ten-si-ty (in ten'si tē) noun. The state of being strong and extreme. The intensity of the fire kept the firefighters from entering the building.
- in-vest (in vest') verb. To put money towards something that will make more money. The businesswoman wanted to invest her money in the new product.
- ir-ri-tat-ing (ir'i tā ting) 1. verb. Annoying; pestering. The eyelash in my eye is irritating me. 2. adjective. Making painful or sensitive. The insect was making irritating noises throughout the night.

# Jj

jum-ble (jum'bəl) 1. verb. To mix or throw into a confusion. My uncle sometimes will jumble two different stories together. 2. noun. A mess. The dog made a jumble out of his toys.

# L

- **leg-is-la-tion** (lej'is lā'shən) noun. The laws made or passed. Congress has the power to pass new **legislation**.
- log·i·cal (loj'i kəl) adjective 1. Having to do with sensible way of thinking. The teacher gave a logical explanation as to why to behave during a fire drill. 2. Being as expected. It is logical that if you drop a fragile glass, it will break.

# Mm

- mag·ni·fy (mag'nə fī) verb. To make something look larger than it actually is. To magnify the insect, put it under the microscope.
- mar-ket-place (mär'kit plās') noun. A place where food and other goods are bought and sold. Can you stop at the marketplace on the way home for some food?
- **ma-ture** (mə chùr') adjective. Having characteristics of an adult. The **mature** girl made a speech to the assembly.
- mer-chan-dise (mûr'chən dīs') noun. Things that are bought and sold; goods. The clerk had to stock the merchandise in the store.
- mi-cro-scope (mī'krə skōp') noun. An instrument that uses lenses to enlarge any image seen through it. The students used the microscope to view plant cells.
- min-gle (ming'gəl) verb. 1. To come or mix together. The scientist wanted the chemicals to mingle in the test tube. 2. To associate with others. I like to mingle with other people at parties.
- mis-chief (mis'chif) noun. A behavior that may be playful but can cause harm or trouble. The babysitter tried to prevent my brother from getting into any mischief.
- **mist** (mist) *noun*. A mass or cloud of tiny drops of water in the air. The mountain had a heavy **mist** over it this morning.

- mis-treat-ed (mis trē'tid) verb. Treated badly or in a cruel way. The child mistreated the dog by pulling on its ears.
- **mut-tered** (mut'ərd) verb. Spoke in a low, unclear way. During the meeting, the disgruntled worker **muttered** complaints under his breath.

# Nn

**now-a-days** (nou'ə dāz') adverb. In the present day. **Nowadays** people send more e-mail than letters.

# Oo

- o-be-di-ence (ō bē'dē əns) noun. The act of obeying or carrying out orders. The dog showed obedience when he listened to me.
- of-fi-cial (ə fish'əl) adjective. Approved by authority. The principal announced the official results of the school election.
- op-po-nent (ə pō'nənt) noun. A person who competes with another in a fight, discussion, or contest. Before the race, I shook the hand of my opponent to wish him good luck.
- op-posed (ə pozd') verb. To have been against; resisted. Many people opposed the curfew being enforced on the town.

- or-gan-i-za-tions (ôr'gə nə zā'shəns) plural noun. Groups of people who join together for a specific purpose. I joined several organizations to help the community.
- o-rig-i-nal (ə rij'ə nəl) adjective. New; done for the first time. The idea for the math project was original.
- **out-stretched** (out'strecht') adjective. Stretched out or extended. I greeted my grandparents with **outstretched** arms.
- **o-ver-whelm-ing** (ō'vər wel'ming) *adjective*. Making helpless; overpowering completely. The amount of work I had to finish in a short period of time seemed **overwhelming**.

# Pp

- per-ish (per'ish) verb. To be destroyed; die. If the ship sinks, then many people may perish.
- **per-ma-nent** (pûr'mə nənt) adjective. Meant to last without change. After many interviews, I finally landed a **permanent** job.
- **phases** (fāz'iz) plural noun. 1. Stages of growth. The tadpole goes through several phases as it grows. 2. Shapes of the moon at a particular time. It is very interesting to study the different phases of the Moon.

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- **plung-ing** (plunj'ing) *verb*. Diving or falling suddenly in a downward direction. *Those penguins are plunging into the ocean*.
- **poi-son-ous** (poi'zə nəs) adjective.

  Containing a substance that harms or kills by chemical action. When the **poisonous** snake escaped the tank, people ran in the other direction.
- **pol-i-ti-cian** (pol'i tish'ən) *noun*. An individual who holds or runs for a government office position. The **politician** shared her ideas for improving the park.
- **por-traits** (pôr'trits) plural noun. Pictures of someone. The Mona Lisa is one of the most famous **portraits** in history.
- **pounce** (pouns) *verb*. To leap suddenly and take hold of. *The kittens love to pounce on each other for fun*.
- **pred-a-tor** (pred'ə tər) *noun*. An animal that hunts other animals in order to live. *Foxes, wolves, hawks, and bears are predators*.
- **prev-a-lent** (prev'ə lənt) *adjective*.

  Commonly used or accepted in an area; widespread. *Money is prevalent* throughout the world.
- **prey** (prā) noun. An animal that is hunted or killed by other animals for food. Mice and other small rodents are the **prey** of hawks.
- **priv-i-lege** (priv'ə lij) noun. A special right given to a group or person.
  We had the **privilege** of going to shows for free because we worked for the theater.

- **pro-ce-dure** (prə sē'jər) *noun*. An appropriate way of doing something, usually by a definite series of steps. *Our teacher went over the evacuation procedure*.
- proc-ess (pros'es) noun. A series of
   actions that are done in making or doing
   something. What does the process of
   creating a book involve?
- **proc·la·ma·tion** (prok'lə mā'shen) noun.
  An official public announcement. Abraham
  Lincoln made a very famous **proclamation**in 1863.
- **pros-pec-tor** (pros'pek tər) noun.
  An individual who explores for gold and other minerals. A **prospector** will often pan through dirt to find gold.
- **pro-test** (prə test') verb. Complain or express disapproval against something. The workers are planning to **protest** the closing of the factory.

# Qq

**qual-i-fied** (kwol'ə fīd) adjective. Having the needed abilities for something; meeting the requirements. Bobby's advertising expertise made him **qualified** for the job.

### Rr

**ref-uge** (ref'ūj) *noun*. Shelter or protection from harm and danger. The scared kitten took **refuge** under the porch.

- reg-is-tered (rej'ə stərd) 1. verb. Wrote on a list or recorded officially. My brother has registered to vote. 2. adjective. Officially licensed. The registered nurse assisted the doctor in the surgery.
- **re-new-able** (ri nü'ə bəl) adjective. Able to be made new again. Trees are an example of a **renewable** resource.
- re-quest-ed (ri kwes'tid) verb. Asked for.

  I requested time off from work so I can visit my relatives.
- res-i-dents (rez'i dənts) plural noun. People who live in a particular place. My family and lare residents of South Carolina.
- re-sist-ance (ri zis'təns) noun. The ability to overcome or resist something. As a teacher, you need to build up a resistance to germs.
- **re-treat-ed** (ri trē'tid) verb. Moved back or withdrew. The troops **retreated** the grounds under the president's command.
- **rip·pled** (rip'əld) verb. Formed small waves. The water **rippled** when our dog waded in the pond.
- roots (rüts) plural noun. 1. Origins; where something begins. Our family's roots in this country go back to the eighteenth century.
  2. Parts of a plant that grow into the ground.
  Roots help the plant get water from the soil.

- **ro-tates** (rō'tāts) verb. Turns around. Our planet Earth **rotates** on its axis as it travels around the Sun.
- rou-tine (rü tēn') noun. A regular way of doing something. Going to school is part of my weekly routine.

# Ss

- scat-tered (skat'ərd) verb. Threw and spread about in different places. The toddler scattered his toy cars around the house.
- **scoffed** (skôfd) *verb*. Made fun of; mocked; teased. *He immediately* **scoffed** at my idea for the project.
- scorn-ful-ly (skôrn'fəl lē) adverb. In a way that shows hatred for someone or something thought of as worthless. The man looked scornfully at the cat eating out of his garbage can.
- scout-ed (skou'tid) verb. Searched for in order to bring back information. We scouted the town library for books on animal adaptations.
- scroung-ing (skroun'jing) verb. Getting, collecting, gathering, or foraging with great effort or difficulty. The stray dog was scrounging for some food.

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- **se-lec-tive** (si lek'tiv) adjective. Able to pick out carefully. I was very **selective** in buying only healthful food.
- **self-esteem** (self i stēm') *noun*. Having confidence and respect in oneself. I had really high **self-esteem** when I won the spelling bee.
- **self-ish** (sel'fish) *adjective*. Thinking only of oneself; not thinking of others. My **selfish** brother ignored me when I told him I needed to use the computer.
- **se-ries** (sîr'ēz) *noun*. A number of related things coming one after another. *I want to purchase the book series from the store*.
- set-tle-ment (set'əl mənt) noun. A colony or new region where people start living. The people started building homes in their new settlement.
- **se-vere** (sə vîr') adjective. Dangerous or serious. The **severe** fire caused much damage to the forest.
- shat-tered (shat'ərd) verb. 1. Broke into pieces. The glass shattered after being dropped. 2. Destroyed or damaged. My dreams were shattered when I lost my job.
- shriv-el (shriv'əl) verb. To wrinkle and shrink. If you leave the grape in the sun, it will slowly shrivel into a raisin.
- **sliv-er** (sliv'ər) *noun*. A slender, thin piece. *Please cut me a sliver of cake*.
- **soared** (sôrd) *verb*. Flew high in the air. *The* eagle **soared** high into the sky.

- **spar-kles** (spär'kəlz) *verb*. Shines and gives off light; glitters. *Her necklace sparkles in the light*.
- spe-cial-ty (spesh'əl tē) noun. A particular thing that a person knows a lot about. My aunt's specialty is baking cakes.
- spe-cif-ic (spi sif'ik) adjective. Exact;
  precise. Our teacher left specific
  instructions on how to do the assignment.
- **squirmed** (skwûrmd) *verb*. Twisted and turned one's body. *The toddler squirmed in his mother's arms*.
- **stale** (stāl) adjective. Not fresh. The cookies were left out and became **stale**.
- **sub-stan-tial** (səb stan'shəl) *adjective*. Large or considerable in amount. *My aunt made a* **substantial** *amount of food for the party.*

### Tt

- **tech-nol-o-gy** (tek nol'əj ē) *noun*. The use of scientific knowledge for practical purposes. We are able to accomplish so much these days through the use of **technology**.
- **tel-e-scope** (tel'ə skōp') noun. A tool that makes distant objects seem closer. The kids took turns looking at the stars through the **telescope**.
- **ten-sion** (ten'shan) *noun*. A feeling of pressure caused by too much emotional strain or worry. Since work was so busy, it started causing **tension** among my coworkers.

- **ter·ri·to·ries** (ter'i tôr'ēz) plural noun.

  Large areas or regions of land. The **territories** were populated with people from

  different countries.
- **thrill-ing** (thril'ing) *adjective*. Causing a sudden feeling of excitement. *The roller coaster ride was a thrilling experience*.
- **tin-ker-ing** (ting'kəring) *verb*. Attempting to fix something in an aimless way. *The mechanic was tinkering* with his car in the garage.
- **tol-er-ate** (tol'ə rāt) verb. To put up with; stand. The teacher does not **tolerate** students who are disrespectful.
- **top·ple** (top'əl) verb. To fall or make fall forward. The waiter tried carefully not to have the dishes **topple** over.
- **trans-ac-tion** (tran zak'shən) noun.

  A business deal that includes buying and selling of something. The clerk wrote down our **transaction** on the receipt.
- **treach-er-ous** (trech'ər əs) adjective. Hazardous or dangerous. We carefully crossed the **treacherous** bridge over the valley.
- **tre-men-dous** (tri men'dəs) *adjective*. Very large or enormous. *The mansion* was **tremendous**.

- **tri-umph** (trī'umf) noun. A great victory or success. Climbing that mountain was an absolute **triumph** for the hiker.
- **trudged** (trujd) *verb*. Walked slowly with heavy steps. *The tired construction workers* **trudged** up the building steps.
- **trust-wor-thy** (trust'wûr'thē) adjective. Able to be trusted; reliable. My cousin is **trustworthy** so I told him my secrets.
- **typ-i-cal** (tip'i kəl) *adjective*. Showing usual characteristics or qualities. *Pizza is a typical* food item on our school lunch menu.

# Uu

- un-com-fort-a-bly (un kum'fər tə blē) adverb. Uneasily; not comfortably. The witness spoke uncomfortably about the robbery.
- un·cov·er (un kuv'ər) verb. To discover;
  make known. There was much to uncover
  about the colony at the historic site.
- un-der-tak-ing (un'dər tāk'ing) noun.
  Something undertaken as a task. Opening a new restaurant is a huge undertaking.
- un-pre-dict-a-ble (un'pri dik'tə bəl) adjective.
  Not behaving in a way that is expected. The weather is sometimes unpredictable.

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# Vv

ver-sion (vûr'zhən) noun. A description given from a specific point of view. The siblings had their own version of the story.

vi-bra-tions (vī brā'shəns) plural noun.
Rapid, continuous movements back and forth and up and down. Many towns felt the vibrations from the earthquake from far away.

### Ww

**wea-ry** (wîr'ē) adjective. Really tired. The **weary** puppy laid down on the floor.

**whirl** (wûrl) *verb*. To spin or turn rapidly in a circle. *Little girls love to whirl around in a circle with their dresses*.

with-ered (with'ərd) verb. Shriveled or dried up. The flowers withered because I forgot to water them.



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