



# Scope and Sequence

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UNIT	READING	VOCABULARY	GRAMMAR
	BIG QUESTION	1 Where are we in the universe?	Science: Astronomy
1 Page 6	Bella's Home Science Fiction Reading Strategy Visualizing Changes	Reading Text Words moon, asteroid, comet, meteorite, solar system, stars, galaxy, universe, spacecraft, telescope, observatory Words in Context vast, dwelled, speck, disk Word Study Words with ei	Predictions with Will Future statements I will visit those places again, Bella thought.
Page 16	Traveling Together Around the Sun Science Article (Nonfiction) Reading Strategy Compare and Contrast in Science	Reading Text Words astronomer, space probe, core, gravity, orbit, matter, distance, diameter, surface, craters, unique Words in Context bodies, explore, inner, outer Word Study Words with the suffixes -ance and -ant	Future Real Conditional Future statements and questions If technology continues to grow, we will travel to these places ourselves.
	BIG QUESTION	2 How do we know what happened	long ago? Social Studies: History
Page 26	Hidden Army: Clay Soldiers of Ancient China Magazine Article (Nonfiction) Reading Strategy Author's Purpose	Reading Text Words army, soldiers, uniform, emperor, armor, treasure, archaeologist, tomb, jade, clay, peasant Words in Context battle, generals, varnish, coffin Word Study Words with the suffix -ist	Verbs Followed by Infinitives Simple present and simple past statements and questions The Chinese government plans to keep it closed for now.
Page 36	Stumbling upon the Past Realistic Fiction Reading Strategy Predictions	Reading Text Words dinosaur, skull, ravine, examine, discover, excavate, layers, paleontologist, ash, sedimentary rock, pastime Words in Context favorite, dream, tripped, determine Word Study Words with ie	Verbs Followed by Gerunds Simple present and simple past statements and questions Javier enjoyed playing with his friends.
	BIG QUESTION	3 Where does our food come from	n? Social Studies: Geography
5 Page 46	The Breakfast Quest Humorous Fiction Reading Strategy Conclusions	Reading Text Words sugar cane, wheat, cinnamon, butter, vanilla, ingredients, bark, plantation, steamship, spoil, leopard Words in Context gather, introduce, peel, coax Word Study Phrasal verbs with drop	Present Continuous for Future Plans Present continuous statements and questions I'm making a special breakfast today.
6 Page 56	From the World to Your Table Informational Text (Nonfiction) Reading Strategy Summarize	Reading Text Words convenient, export, local, process, package, farmer's market, agriculture, corporate farm, decrease, century, chemical  Words in Context grocery stores, food labels, organic food, whole food  Word Study Four-syllable words	Polite Offers Simple present questions and answers Would you like to know where your food comes from?
	BIG QUESTION	Why do we make art? Art	
<b>7</b> Page 66	Art Through New Eyes Magazine Article (Nonfiction) Reading Strategy Text Features	Reading Text Words sketch, pastels, canvas, paintbrushes, shapes, string, three-dimensional, prodigy, street painter, carpenter, sculptor  Words in Context complex, washable, combines, fascination  Word Study Words with the prefix dis-	Indefinite Pronouns Simple present and simple past statements and questions I want to paint something in this room.
Page 76	Sketches in a Gallery Realistic Fiction Reading Strategy Value Judgments	Reading Text Words exhibition, frame, landscape, texture, shading, perspective, contrast, space, stained, brilliant, pale Words in Context ignore, worries, famous, speechless Word Study Synonyms	Offers with Shall and Will Future statements and questions "Shall I show you some more sketches?" he asks.



A Nigerian Myth

A myth about the sun and the moon





**Describing with the Senses** 

What did dinosaurs sound like?



**Count and Noncount Nouns** 

A lot of volcanic ash was above the bone.



Review

Units 3 and 4 (WB)
Big Question 2 Review

DITTO N			
LISTENING	SPEAKING	WRITING	WRAP UP
Looking at the Stars	Talking About Differences	Writing Complete Sentences	
A conversation about stars in a galaxy <b>Listening Strategy</b> Listening for reasons	The first picture has a quarter moon.	The Earth revolves around the sun.  Writing Practice Write about an object in the universe (Workbook)	Writing     Write a compare and contrast report (WB)
The Speed of Light A science report about how fast light travels	Asking About Quantity How much water is on Jupiter?	Choice Questions Is Ganymede a planet or a moon?	Project     Create a model     Review     Units 1 and 2 (WB)
Listening Strategy Listening for main idea and numbers		Writing Practice Write about exploring the universe (WB)	Big Question 1 Review
An Ancient Town	Giving Reasons	Verb Tenses	
Children discuss a very old town	I'd like to go back to an ancient Maya city.	The first emperor died when he was 49 years old.	• Writing
Listening Strategy Listening for similarities and differences	I want to see how Maya people made pyramids.	Writing Practice Write about something that happened long ago (WB)	Write a descriptive report (WB)  • Project
A Nigorian Muth	Doscribing with the Conses	Count and Noncount Nounc	Create a time capsule

Listening Strategy Listening for gist and sequence	They probably sounded very loud.	Writing Practice Write about something old that people might look for in the ground (WB)	Big Question 2 Review
Where My Food Comes From A girl explains the types of food she eats Listening Strategy Listening for examples and numbers	Giving a Reason for a Preference I like oranges, but I prefer bananas because they are easier to peel.	Interesting Adjectives My chickens lay wonderful eggs. Writing Practice Write about a delicious meal (WB)	• Writing Write a research report (WB)
Types of Farms Reporters discuss types of farms Listening Strategy Listening for reasons	Talking About Food in Your Area People often grow apples where I live.	Prepositional Phrases of Location The asparagus is near the carrots. Writing Practice Write about a real or imaginary garden (WB)	Project Create a story Review Units 5 and 6 (WB) Big Question 3 Review

Where My Food Comes From A girl explains the types of food she eats Listening Strategy Listening for examples and numbers	Giving a Reason for a Preference I like oranges, but I prefer bananas because they are easier to peel.	Interesting Adjectives My chickens lay wonderful eggs. Writing Practice Write about a delicious meal (WB)	• Writing Write a research report (WB)
Types of Farms Reporters discuss types of farms Listening Strategy Listening for reasons	Talking About Food in Your Area People often grow apples where I live.	Prepositional Phrases of Location The asparagus is near the carrots. Writing Practice Write about a real or imaginary garden (WB)	Project Create a story Review Units 5 and 6 (WB) Big Question 3 Review
Art Around the World Children discuss art they like to make Listening Strategy Listening for reasons	Talking About a Picture What are the children doing? They're painting.	Compound Predicate Picasso painted many masterpieces and created many sculptures. Writing Practice Write about a work of art (WB)	• Writing Write an opinion essay (WB) • Project
An Important Painting A tour guide discusses a famous painting Listening Strategy Listening for differences and details	Expressing a Desire or Wish I wish I could paint like Claude Monet.	The Articles A/An and The Theo went to see an exhibition. Theo went to see the exhibition of Zayan Khan's landscapes. Writing Practice Write about an artist (WB)	Act in a play  • Review  Units 7 and 8 (WB)  Big Question 4 Review

UNIT	READING	VOCABULARY	GRAMMAR
	BIG QUESTION !	What is a city? Social Studies: Soci	ety
Page 86	Jakarta: A Big-City Snapshot Travel Article (Nonfiction) Reading Strategy Paraphrasing	Reading Text Words canal, port, architecture, rickshaw, street vendor, antiques, souvenirs, batik, exotic fruits, tuna, shrimp Words in Context countless, congested, haggle, banned Word Study Words with soft c and hard c	Negative Indefinite Pronouns Simple present and simple past statements and questions Do you have nothing to do?
10 Page 96	Mayor for a Day Humorous Fiction Reading Strategy Understanding Characters	Reading Text Words citizens, volunteers, mayor, assistant, city council, city hall, president, garbage collectors, equipment, news conference, playground  Words in Context contest, ribbon, speech, members  Word Study Phrasal verbs with take	Tag Questions Simple present, simple past, and future questions You'll work hard, won't you?
	BIG QUESTION	How do our bodies work? Life So	ience
<b>11</b> Page 106	Understanding Viruses with Max Axiom, Super Scientist Graphic Science Fiction Reading Strategy Main Idea and Theme	Reading Text Words cells, microscope, virus, bacteria, disease, influenza, common cold, mucus, immune, paralyze, infect Words in Context suit, scrape, fluid, swallowed Word Study Antonyms	Order of Adjectives Simple present and simple past statements and questions Max Axiom studies these fascinating, tiny visitors.
<b>12</b> Page 116	The Human Body: Systems at Work Informational Text (Nonfiction) Reading Strategy Sequence of Actions	Reading Text Words system, blood, heart, arteries, veins, capillary, lungs, trachea, diaphragm, carbon dioxide, pulse Words in Context major, pumps, tubes, squeezes Word Study Verbs that end in -ate	Used To Simple past statementss In ancient times, people used to think differently about the human body.
	BIG QUESTION	What is the mass media? Social	Studies: Technology
13 Page 126	From Newspapers to Smartphones: The Rise of the Mass Media Interview (Nonfiction) Reading Strategy Main Idea and Supporting Details	Reading Text Words mass media, newspaper, magazine, printing press, publisher, advertising, broadcast, the Web, smartphone, blog, social network  Words in Context journalist, newsreels, radio station, latest  Word Study Words with silent k	Must, Mustn't, Have To, Don't Have To Simple present and simple past statements You must pay for the Internet to use it at home.
<b>14</b> Page 136	From the Blog of Elsa B. Garcia, Kid Reporter Realistic Fiction Reading Strategy Conflict and Resolution	Reading Text Words reporter, editor, interview, headline, hero, website, mistake, decide, discuss, investigate, search Words in Context mansion, terrible, donated, fair Word Study Synonyms	Present Perfect Present perfect statements I have decided to keep a blog.
	BIG QUESTION	What can we learn from nature	's power? Earth Science
<b>15</b> Page 146	Forces of Nature Science Article (Nonfiction) Reading Strategy Cause and Effect in a Series of Events	Reading Text Words flood, earthquake, tsunami, hurricane, tornado, blizzard, thunderstorm, rescue worker, victim, power lines, collapse  Words in Context forces, funnel, horizontally, vertically  Word Study Compound nouns with noun-verb combinations	Present Perfect with Ever and Never Present perfect questions and answers Have you ever seen a real tornado?
16 Page 156	Staying Calm Before the Storm Historical Fiction Reading Strategy Making Inferences	Reading Text Words emergency, storm shelter, first-aid kit, cash, storm shutters, sleeping bag, flashlight, batteries, supplies, bottled water, canned food  Words in Context inland, destroyed, trunk, landfall  Word Study Phrasal verbs with turn	Present Perfect with Already, Just, and Yet Present perfect statements and questions I've already packed everything.
	BIG QUESTION	Why are biomes important? Ea	rth Science
Page 166	The Natural Communities of Earth Informational Text (Nonfiction) Reading Strategy Classify and Categorize	Reading Text Words biome, desert, grassland, tropical rainforest, temperate forest, taiga, tundra, freshwater, equator, sloth, cactus Words in Context Arctic, hatches, glides, scenes Word Study Words with -tch	Present Perfect with For and Since Present perfect statements I have studied biomes since February.
18 Page 176	Camila's Journey Realistic Fiction Reading Strategy Asking Open-ended Questions	Reading Text Words parrot fish, seahorse, manta ray, sea turtle, marine park, snorkel, speedboat, border, petition, law, astonish Words in Context manage, invited, signed, difference Word Study Words with the suffixes -ent and -ence	Present Perfect and Simple Past Present perfect and simple past statements and questions Camila has created a petition. When she got home, Camila created a petition.
Page 186	M Dictionary		

Cities and Vistor The reasons why many rise from near books of water Listening Strategy Listening for facts Cities Conditions that what they like about the cities they live in the cities they live in Listening Strategy Listening for facts reasons  Benefits of Cities Cities Cities Conditions that what they like about the cities they live in Listening Strategy Listening for facts reasons  Public Strates Announcement An announcement on laws to stay live and an about a strategy Listening for facts reasons continued to the cities they live in Listening Strategy Listening for whot is speaking and details  Creating a Big An explanation of from for create a big Listening Strategy Listening for subort Speaking and details  Creating a Big An explanation of from for strategy Listening for strategy Listening for strategy Listening for potal man and details  Creating a Big An explanation of from for strategy Listening for strategy Listening for gist and details  Creating a Big Listening Strategy Listening for gist and details  Creating a Big Listening Strategy Listening for gist and details  Creating a Big Listening Strategy Listening for gist and details  Creating a Big Listening Strategy Listening for gist and details  Creating a Big Listening Strategy Listening for gist and details  Creating a Big Listening Strategy Listening for strategy Listening for resonation  An explanation of low for create a big Mig details and strategy Listening for for strategy Listening for strategy Listening for strategy Listening Strategy Listening Fractice Wine about a mass media job (WB)  Wind and for strategy Listening for recommendations  Contractions in Present Perfect Sentences  When the principle Annother to make a fine from this circums by a fine from the convention of the formation of the formation of the formation of the format	LISTENING	SPEAKING	WRITING	WRAP UP
The reasons why many clies form near bodies of vater Listening Strategy Listening for ficite Chiefers share what they like about a primary may.  Asking Questions with flower To Chiefers share what they like about a primary may.  Listening for facts and opinions  Public Service Announcement An announcement An announcement An announcement on how to sub-peaking and Listening Strategy Listening for facts and opinions  Asking and Announcement An announcement on how to sub-peaking and clear to sub-peaking may be sub-peaking ma				
Reserve the part of the part o	The reasons why many cities form near bodies of water  Listening Strategy	My city grew because it is next to a river. The river was important because people used	River Seine, Lake Texcoco, Pacific Ocean	Write a persuasive essay (WB)  • Project
An announcement on how to stay healthy Listening Strategy Listening for advice  The Body's Bones Facts about the bones in the human body Listening Strategy Listening for who's speaking and details  Creating a Blog An explanation of how to create a blog Listening of strategy Listening for facts and opinions Listening Strategy Listening for problems and solutions, main idea and details  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening for problems and solutions, main idea and details  Weather Murrings Reporters give extreme weather warnings Listening Strategy Listening for reodems and solutions, main idea and details  Taking About Needs Wend of solution from the solution of solutions and the spring factor of solution for solutions and solutions, main idea and details  Possibilities  Conditions in Present Perfect Sentences We've bought extra water in case of a storm.  Writing Practice Write about an imaginary, dangerous situation (WB)  Withing Practice Write about an imaginary, dangerous situation (WB)  Project Create a school news	Children share what they like about the cities they live in  Listening Strategy	Do people in your city have to recycle bottles	I play chess with my mother but not with my father.	• Review Units 9 and 10 (WB)
An announcement on how to stay healthy Listening Strategy Listening for advice  The Body's Bones Facts about the bones in the human body Listening Strategy Listening for who's speaking and details  Creating a Blog An explanation of how to create a blog Listening of strategy Listening for facts and opinions Listening Strategy Listening for problems and solutions, main idea and details  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening for problems and solutions, main idea and details  Weather Murrings Reporters give extreme weather warnings Listening Strategy Listening for reodems and solutions, main idea and details  Taking About Needs Wend of solution from the solution of solutions and the spring factor of solution for solutions and solutions, main idea and details  Possibilities  Conditions in Present Perfect Sentences We've bought extra water in case of a storm.  Writing Practice Write about an imaginary, dangerous situation (WB)  Withing Practice Write about an imaginary, dangerous situation (WB)  Project Create a school news				
The Body's Bones Facts about the bones in the human body Listening for who's speaking and details  Creating a Blog An explanation of how to create a blog Listening Strategy Listening for gist and details  Creating a Blog An explanation of how to create a blog Listening for gist and details  Giving Examples My dod gets news from the newspaper.  My dod gets news from the newspaper.  School News A school news program for students Listening for regist and opinions  Giving Opinions Listening for tacts and opinions  Giving Opinions Listening for facts and opinions  Foreign Control of the present Perfect George has fearned a lot from this science blog. Writing Practice Write about a mass media job (WB)  Earthquake Preparation An explanation of how to prepare for an earthquake Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening frategy Listening for problems and solutions; main idea and details  Weather Warnings Reporters give extreme weather warnings Listening frategy Listening for recommendations  Food Chains Children explain desert food chains Listening frategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening for sequence Listening Strategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening Strategy Listening Strategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening Strategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening Strategy Listening Strategy Listening Strategy Listening for recommendations  Describing a Sequence In the spring, the trees are full of small leaves, Ustening Strategy Listening Strategy	An announcement on how to stay healthy  Listening Strategy	Questions What do you do when you catch a cold? I drink a lot of water and sleep as much as	Eat healthy food every day.	Write an interview (WB)  • Project
An explanation of how to create a blog Listening Strategy Listening for gist and details  School News A school news program for students Listening Strategy Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening Strategy Listening for protisens and solutions; main idea and details  Weather Warnings Reporters give extreme weather warnings Listening Strategy Listening Strate	Facts about the bones in the human body  Listening Strategy Listening for who's speaking and	What is the stomach? It's a part of your body that breaks	When everyone works together, you can do great things!	Review     Units 11 and 12 (WB)
An explanation of how to create a blog Listening Strategy Listening for gist and details  School News A school news program for students Listening Strategy Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening Strategy Listening for protisens and solutions; main idea and details  Weather Warnings Reporters give extreme weather warnings Listening Strategy Listening Strate				
A school News A school news program for students Listening Strategy Listening for facts and opinions  Earthquake Preparation An explanation of how to prepare for an earthquake Listening Strategy Listening for problems and solutions; main idea and details.  Weather Warnings Reporters give extreme weather warnings Listening Strategy Listening Strategy Listening for recommendations  Talking About Needs We need to get water bottles.  Possibilities Talking About Needs We need to get water bottles.  Talking Practice Write about a mass media job (WB)  **Writing Practice Write about a force of nature (WB)  Writing Practice Write about a force of nature (WB)  Writing Practice Write about a force of nature (WB)  Writing Practice Write about a force of nature (WB)  Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Project** Create an emergency poster fixehold.  Writing Practice Write about an imaginary. dangerous situation (WB)  **Beyone Units 13 and 14 (WB) Big Question 7 Review  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Project** Create an emergency poster fixehold.  **Writing Practice Write about an imaginary. dangerous situation (WB)  **Beyone Units 15 and 16 (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a mass media job (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about a force of nature (WB)  **Writing Practice Write about someone who visits a blome (WB)  **Writing Practice Write about someone who visits a blome (WB)  **Writing Practice Write about protecting blomes (WB)  **Writi	An explanation of how to create a blog Listening Strategy		When early humans discovered how to make fire, they told their friends.	Write a news story (WB)  • Project Create a school news
An explanation of how to prepare for an earthquake  Listening Strategy Listening for problems and solutions; main idea and details  Weather Warnings Reporters give extreme weather warnings Listening Strategy Listening Strategy Listening Strategy Listening for recommendations  Talking About Needs We need to get water bottles.  Talking About Needs We need to get water bottles.  Talking About Needs Writing Practice Write about an imaginary, dangerous situation (WB)  The waves were violent. They smashed violently into the hotel. Writing Practice Write about an imaginary, dangerous situation (WB)  The cheetah ran until it caught the gazelle. Writing Practice Write about someone who visits a biome (WB)  Writing Practice Write about someone who visits a biome (WB)  The cheetah ran until it caught the gazelle. Writing Practice Write about someone who visits a biome (WB)  Writing Practice Write about protecting biomes (WB)	A school news program for students  Listening Strategy	I don't think that all blogs are interesting	George has learned a lot from this science blog. I've seen the inside of a television studio.	• Review Units 13 and 14 (WB)
An explanation of how to prepare for an earthquake  Listening Strategy Listening for problems and solutions; main idea and details  Weather Warnings Reporters give extreme weather warnings Listening Strategy Listening Strategy Listening Strategy Listening for recommendations  Talking About Needs We need to get water bottles.  Talking About Needs We need to get water bottles.  Talking About Needs Writing Practice Write about an imaginary, dangerous situation (WB)  The waves were violent. They smashed violently into the hotel. Writing Practice Write about an imaginary, dangerous situation (WB)  The cheetah ran until it caught the gazelle. Writing Practice Write about someone who visits a biome (WB)  Writing Practice Write about someone who visits a biome (WB)  The cheetah ran until it caught the gazelle. Writing Practice Write about someone who visits a biome (WB)  Writing Practice Write about protecting biomes (WB)				
## Reporters give extreme weather warnings Reporters give extreme weather warnings Listening Strategy Listening for recommendations    Food Chains Children explain desert food chains Listening Strategy Listening for sequence   Life in a Different Biome Children discuss biomes where they would like to live Listening Strategy   Listening Strategy   What do I need for my trip?	An explanation of how to prepare for an earthquake <b>Listening Strategy</b> Listening for problems and solutions;		We've bought extra water in case of a storm.	Write a how-to speech (WB)  • Project
Children explain desert food chains Listening Strategy Listening for sequence  Life in a Different Biome Children discuss biomes where they would like to live Listening Strategy Listening Strategy  Listening Strategy  Listening Strategy  Life in a Different Biome Children discuss biomes where they would ske to live Listening Strategy  Listening Strategy  Life in a Different Biome Children discuss biomes where they would ske to live Listening Strategy  Listening Strategy  Life in a Different Biome Complex Sentences with Since and Because Since coral reefs are dying, we have to help them. Writing Practice Write about protecting biomes (WB)  Big Question 9 Review  Listening Strategy	Reporters give extreme weather warnings Listening Strategy		The waves were violent. They smashed violently into the hotel.  Writing Practice Write about an imaginary,	• Review Units 15 and 16 (WB)
Children explain desert food chains Listening Strategy Listening for sequence  Life in a Different Biome Children discuss biomes where they would like to live Listening Strategy Listening Strategy  Listening Strategy  Listening Strategy  Life in a Different Biome Children discuss biomes where they would ske to live Listening Strategy  Listening Strategy  Life in a Different Biome Children discuss biomes where they would ske to live Listening Strategy  Listening Strategy  Life in a Different Biome Complex Sentences with Since and Because Since coral reefs are dying, we have to help them. Writing Practice Write about protecting biomes (WB)  Big Question 9 Review  Listening Strategy				
Life in a Different Biome Children discuss biomes where they would like to live Listening Strategy  Asking About Needs What do I need for my trip?  Complex Sentences with Since and Because Since coral reefs are dying, we have to help them. Writing Practice Write about protecting biomes (WB)  Big Question 9 Review	Children explain desert food chains Listening Strategy		The cheetah ran until it caught the gazelle.  Writing Practice Write about someone who visits a	Write a fictional story (WB)  • Project
	Children discuss biomes where they would like to live  Listening Strategy		Since coral reefs are dying, we have to help them.	• Review Units 17 and 18 (WB)

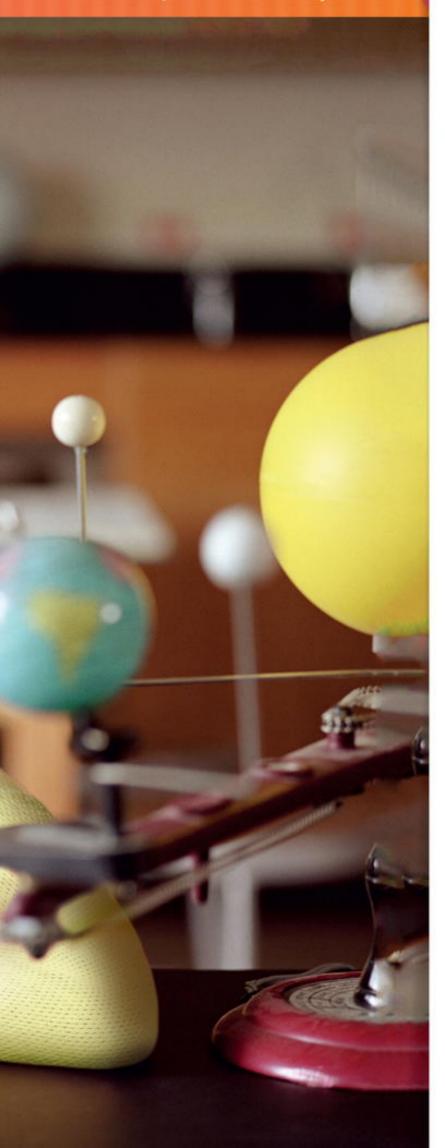
In units 1 and 2 you will:

WATCH a video about the universe. LEARN about our place in the universe. **READ**about a space journey and our solar system.



WRITE a compare and contrast report.

CREATE a model of the solar system.

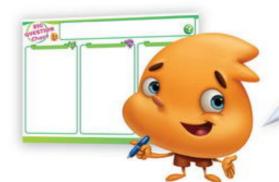




**BIG QUESTION** 

# Where are we in the universe?

- Watch the video.
- Look at the picture and talk about it.
  - 1 What is the girl looking at? What does it do?
  - 2 What do you think the girl is thinking about?
- Think and answer the questions.
  - 1 What can you see in the night sky where you live?
  - 2 Where would you go if you were an astronaut? Why?
- Fill out the **Big Question Chart**.



What do you know about the universe? What do you want to know?

# UNIT 1

# **Get Ready**

#### Words

Listen and read the words. Listen again and say the words. <a> 1.02</a>



Write the following words in the correct order. Talk about your answers.

solar system meteorite galaxy moon <del>universe</del>

Largest → Smallest

universe \_\_\_\_\_\_

- Two of the three words are correct. Cross out the wrong answer.
  - People built this.

observatory star spacecraft

2 This is bright in the night sky.

star comet meteorite

- 3 People use this to look at places far away.
  moon observatory telescope
- 4 This travels through space.

asteroid telescope comet



# **Before You Read**



Think Talk about the word home with your partner. What do you think of when you hear this word?

# **Learn** Visualizing Changes

Remember, you can make pictures in your mind by visualizing what you read. Think about how these pictures change as you read. This will help you to understand and remember a story or a poem.

Read. How do the pictures change in your mind? Write.

Jon's spacecraft flew quickly through space. Through the window, the moon was small and bright. On the next day, it looked like a huge white ball with a bumpy surface and large, dark spots. On the third day, Jon's spacecraft circled the moon. The gray surface was just below him. Rocks of many different sizes covered the surface.

- 1 First: I see the moon far away in the distance. It looks small and bright. 2 Next:\_\_\_\_\_ 3 Finally: \_\_\_\_\_
- Words in Context Scan the story on pages 10-11 and circle these words. As you read, guess what the words mean.

vast dwelled speck disk

- Answer the questions before you read.
  - 1 Where are you right now? What is this place like?
  - 2 What would this place look like if you went a kilometer into the sky?
  - **3** What would it look like at 10 and 100 kilometers into the sky?

#### PREVIEW

#### Bella's Home

In this science fiction story, a science teacher in Nome, Alaska, writes a poem to help his daughter understand how vast and beautiful the universe is. As you read, try to visualize the changes that she sees on her journey through the universe.







# Bella's Home

Charles Kunayak was a high school science teacher who lived with his family in a quiet neighborhood in Nome, Alaska. In his free time, he studied the secrets of the universe. Charles had a powerful telescope, and he often visited observatories, so he learned more and more about the universe. What an amazing universe!

Yet how could Charles help his daughter Bella understand that our sun was just one of billions\* of stars? How could she realize that the small meteorite on display in his classroom traveled to Earth from beyond Mars? How could he explain that we live in a universe so vast, it would take a spacecraft 100,000 years to cross our Milky Way galaxy while traveling at the speed of light!

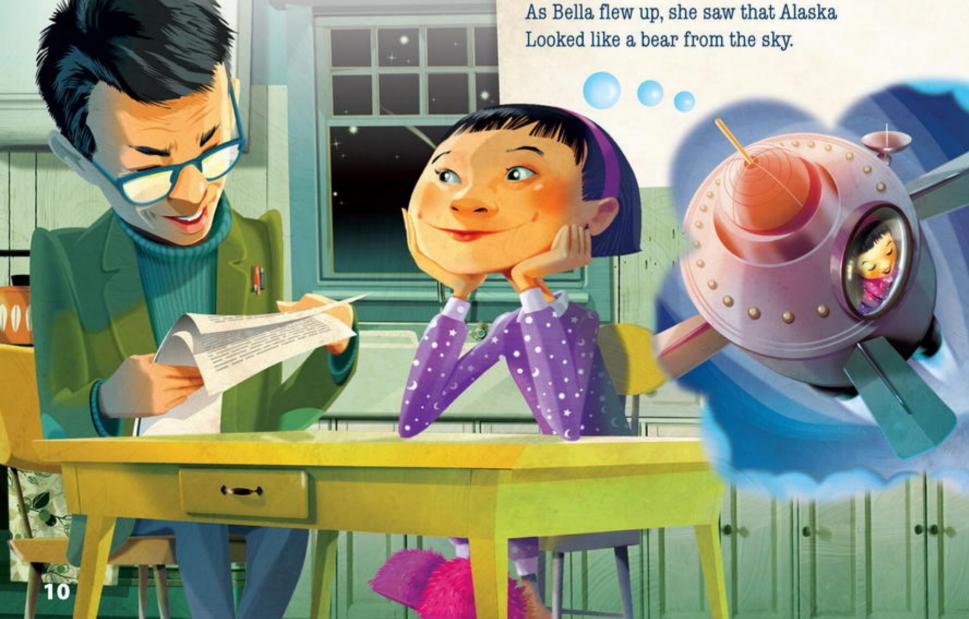
Charles decided that the best way to show Bella was not through numbers and charts, but through a poem. He sat down and wrote what he knew about the universe. He called it "Bella's Home."

# Bella's Home

Bella lived in a white wooden house On a street in the city of Nome. Bella sat in her bedroom and thought to herself, Where in the world is my home?

What I need, she thought, is a spacecraft To give me a better view. So in her mind, she climbed inside And up in the sky she flew.

Her white wooden house was tiny indeed, And Nome was as small as a pie. As Bella flew up, she saw that Alaska Looked like a bear from the sky.





# Understand

# Comprehension



Think Do you understand the universe better after reading the poem about Bella's travels? Why or why not?



In the poem, what did Bella see? Fill in the chart.

First	Next	Finally

- Match each question to an answer.
  - 1 What looks like a bear from the sky?
- a the moon
- 2 What is a blue ball floating in space?
- b Alaska
- **3** What has the light of the sun on its face?
- c the sun
- 4 What is a speck of bright light in the Milky Way?
- **d** the universe

5 What has billions of galaxies?

- e Earth
- Words in Context Read each line of poetry. Circle the word that has the same meaning as the underlined word.
  - 1 What Bella observed was the vast universe.

cold

huge

silent

2 With seven more planets it dwelled.

lived

sang

fell

**3** Now the sun was a <u>speck</u> of bright light.

large ball

warm fire

small spot

4 The Milky Way galaxy was shaped like a disk.

star

triangle

round plate



## Grammar in Use



- Read the sentences. Which one is about what Harry believes?
  - a I will miss my bed too much.
- **b** I want to travel through the universe.
- E Learn Grammar Predictions with Will

Use will to make a prediction. A prediction is something you believe about the future. A prediction is not a fact.

I will visit those places again, Bella thought.

Three of the following sentences are predictions. Write P beside them. Write X beside the sentence that is not a prediction.

- 1 Scientists will send a person to Mars someday. \_\_\_\_\_
- 2 The sun will rise tomorrow morning. \_\_\_\_\_
- 3 She will become an astronaut when she grows up. \_\_\_\_
- 4 Eric will go to space camp next summer. \_\_\_\_\_

I think scientists will find new solar systems in our galaxy.

Make a list like this one. Make predictions and then talk to your partner about them.

#### Things I Predict

Scientists will find new solar systems.

# Communicate

# Listening



Think Why do people like to look up at the stars at night?



Learn Listening for Reasons

When you listen for reasons, first listen for questions starting with the word why. The answer to each question will usually have a reason.

# Listen. Match each question with a reason. 1-05

- 1 Why are stars so easy to see on Grandpa's farm?
- a It's close to Earth and has clouds that bounce sunlight to Earth.

- 2 Why is Venus so bright?
- **b** It's shaped like a disk. We are in the disk, and we can look through it.
- 3 Why can we see the Milky Way galaxy when we're in it?
- There are fewer lights shining outside of a big city.
- Listen again. Why is our galaxy called the Milky Way? Write your answer. 1-06

# Speaking 10 1.07

Look at the two pictures. Talk about the differences with your partner.



# **Word Study**



#### Learn Words with ei

The vowel combination ei often has a long a sound.

Charles lived in a quiet neighborhood in Nome, Alaska.



Listen and read the words. Look them up in the dictionary. Then listen to the sentences. Write the ei words you hear in your notebook. 1008

eighty freight reins sleigh veil weigh

A-74 page 186

# **Writing Study**



# **Learn** Complete Sentences

Complete sentences always need a subject and a verb. This is true for statements, questions, and commands. We usually don't see the subject in a command, but we understand what it is.

Earth revolves around the sun. (statement)

Is the sun in the Milky Way galaxy? (question)

**Sit down.** (command meaning *You sit down.*)

Read the paragraph. Circle two commands. Underline three incomplete sentences and rewrite them as complete sentences in your notebook.

The universe is a beautiful place. A mysterious place. It has more stars than we can count. Old stars and new stars. Try to count them Our galaxy is the Milky Way. Look in the sky. Can you see a belt? A milky, white belt? That's our galaxy!



Now practice writing in the **Workbook** page 9

Vocabulary: Words with ei • Writing: Complete Sentences Unit 1

15





We're on a planet in a solar system.

> We're in a galaxy called the Milky Way.





# **Get Ready**

#### Words

(1) Listen and say the words. Then read and listen to the sentences. (1) 1-09

astronomer space probe core gravity orbit matter

distance diameter surface craters unique

- 1 The astronomer studied the moons of Jupiter.
- 2 Scientists sent a space probe to Mars.
- 3 The core of Earth is 1,800 miles below the surface.
- 4 Without gravity, people on Earth would float into the air.
- 5 Earth's orbit around the sun is not a perfect circle.
- 6 Planets and stars are full of matter.
- 7 There is a big distance between the sun and Earth.
- 8 The diameter of Venus is similar to the diameter of Earth.
- 9 Many plants and animals live on our planet's surface.
- 10 You can see the moon's craters with a telescope.
- 11 Earth is unique because it has living creatures.



1 Some people study this.

matter unique gravity

2 You use this to measure something.

distance diameter craters

3 This is part of Earth.

orbit surface core

4 You can find this outside of Earth.

space probe astronomer craters

How is Earth unique? Write a sentence. Then share your sentence with your partner.





# **Before You Read**



Think Why is the sun important? How would life be different if we didn't have the sun?

Learn **Compare and Contrast in Science** 

> Remember, when you compare and contrast, you talk about how things are alike and different. When you read about science, look for numbers and other information to decide how things are alike or different.

How are Proxima Centauri and the sun alike and different? Read the information and complete the diagram.

Proxima Centauri is the closest star to the sun. Did you know that the sun is also a star? They are both in the Milky Way galaxy. The sun is a vellow dwarf star. Proxima Centauri is a red dwarf star. Proxima Centauri's diameter is only  $\frac{1}{7}$  of the sun's diameter.

	Proxima Cent	auri	The sun	
	Different	Alike	Different	
		,		
_		-		

Words in Context Scan the reading on pages 18–19 and circle these words. As you read, guess what the words mean.

> bodies explore inner outer

Look at the pictures in the article on the next page. What do you see? What would you like to learn in this article?

#### PREVIEW

# **Traveling Together** Around the Sun

In this science article, you will learn about the planets, moons, and other objects that move around the sun as a solar system. Science articles are full of facts and information about our world and universe. As you read, compare and contrast objects in our solar system.

#### Science: Astronomy



# Traveling Together Around the Sun

#### The Asteroid Belt

An asteroid belt runs between the inner and outer planets. Scientists have discovered over 7,000 asteroids there, and there may be millions more. Asteroids travel around the sun, just like planets.

he sun is a star, and it is very important for our planet Earth. It gives us light and heat. However, Earth is not alone. It shares the sun with seven other planets. Together, these planets revolve around the sun in a solar system. Other bodies travel in this solar system, such as moons, asteroids, and comets. They all move around the sun because the sun's gravity is very strong.

Each planet's path around the sun is called an orbit. The planets that are closer to the sun have smaller orbits, so they take less time to go around it. Mercury takes 88 days to complete one orbit. Earth completes one orbit in 365 days, or one year. Neptune's orbit takes 60,200 days, or almost 165 years!

Each planet in our solar system is unique. For example, Mercury is the smallest planet. It has lots of craters, just like our moon. Jupiter is the biggest planet. Its diameter is eleven times bigger than Earth's. Saturn has giant rings of matter around it. Neptune is the farthest planet from the sun.

Mars is a neighboring planet, and scientists are learning a lot about it. They send many space probes to Mars. A space probe called Curiosity landed on Mars on August 6, 2012. Curiosity is as big as a car, and it moves over the surface of Mars. It recently found rocks that had strange shapes. Running water made these shapes. This is an important discovery. Space probes like Curiosity continue to explore the planets, moons, and other bodies in our

solar system. If technology continues to grow, we will travel to these places ourselves.

Iron and rock make up most of the four smaller inner planets of our solar system. Gas and water make up most of the four larger outer planets. This means that you can stand on the surface of Earth, but you can't stand on Saturn. In fact, if you tried to stand on Saturn, you would sink down to the core of the planet.

Drawings of our solar system show the planets close to the sun. However, the distance between the planets and the sun is very far. For example, it would take 176 years to drive a car from Earth to the sun. It would take 5,300 years to drive from Neptune to the sun!

Astronomers think that there are many solar systems in our Milky Way galaxy. However, our solar system is special to us. It is our home.

How are the inner planets the same?
How are they different from the outer planets?

How are some of the planets different from Earth?

#### The Sister Planets

Did you know that Earth and Venus are called "sister planets"? This is because they are almost the same size, and Venus is the closest planet to Earth. However, Venus is much hotter than Earth, and it is always covered in thick clouds.



# Understand

# Comprehension



Think What interesting facts did you learn about our solar system? Discuss your ideas with your partner.



How are the planets below alike and different? Complete the diagram.

Earth	1 V	enus (	-
Different	Alike	Different	
-		-	
		<u> </u>	

- Circle True (T) or False (F).
  - 1 Mercury and our moon both have craters.

2 Mars once had flowing water.

- 3 You can stand on the surfaces of the outer planets.
- 4 There are only a few asteroids in our solar system.
- Words in Context Match the sentence parts.
  - Space probes explore planets and moons. Explore means ...
- a ... far from the center.
- 2 Many bodies travel in space. **Bodies** means ...
- - b ... close to the center.
- 3 Mercury, Venus, Earth, and Mars are inner planets. Inner means ...
- c ... to travel around a new place to learn about it.
- 4 Jupiter, Saturn, Uranus, and Neptune are outer planets. Outer means ...
- **d** ... large objects in space.



## Grammar in Use

Listen and sing along. Going into Space 11-11

If I become an astronaut, I'll fly up through the stars. I'll travel in a spacecraft, And I will go to Mars! I'll explore the planet's surface, Its craters and dry lakes. Life will be so interesting If I go into space!



- Read the sentence. What has to happen before the speaker will go to Mars? If I become an astronaut, I will go to Mars.
- Learn Grammar Future Real Conditional

Use the **future real conditional** to talk about a future possibility and what will happen as a result of it. Use the word if with a future possibility.

If technology continues to grow, we will travel to these places ourselves.

future possibility

result

We will travel to these places ourselves if technology continues to grow.

result

future possibility

Read each sentence. Draw a line under the future possibility. Draw two lines under the result.

- 1 If I become an astronaut, I will walk on the surface of Mars.
- **2** Wendy will search the sky if she gets a telescope.
- 3 If we study hard, the teacher will show us a video.

Make a chart like this one. Then talk to your partner about it.

This will happen in the future	if this happens first.
I will get good grades.	I study hard.

If I study hard, I will get good grades.



# Communicate

# Listening



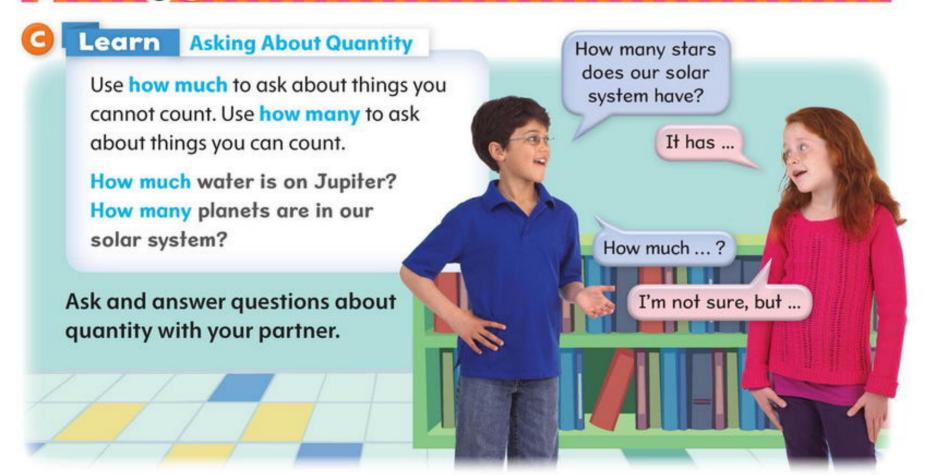
Think If you could travel at the speed of light, which planet in our solar system would you visit? Why?

- Listen. What is the main idea? Write. 1112
- Listen again. Write the travel times at the speed of light. 11-13

Traveling in Space at the Speed of Light				
From	То	Travel Time		
The sun	Earth	8 minutes		
Earth	Mars			
Earth	Jupiter			
Earth	Neptune			
Earth	The nearest star			



# Speaking 10 1-14



# **Word Study**



Learn Words with the Suffixes -ance and -ant

Many nouns that end in -ance can become adjectives if you change the ending to -ant.

Neptune is a long distance from the sun. (noun)

Neptune is a distant planet from the sun. (adjective)



Listen and read the words. Look them up in the dictionary. Circle -ance or -ant in each word. Then listen to the sentences. Write the -ance or -ant word you hear in the correct space. 1-15

fragrance arrog	ance ignorance	fragrant arrogant	
Noun			A-Z p
1fragrance	2	3	
Adjective			
4	5	6	

# **Writing Study**



**Learn** Choice Questions

A question can offer a choice between two or more things. Use the word or in **choice questions.** The answer is never yes or no.

Is Ganymede a planet or a moon?

It's a moon.

Is Proxima Centauri bigger or smaller than the sun?

It's smaller.

Circle or in each question. Underline the choices. Then write.

- 1 Is Mars a moon, a planet or a star? <u>It's a planet.</u>
- 2 Does Earth go around the sun or around the moon? \_\_\_\_\_
- 3 Is Jupiter bigger or smaller than Earth? \_\_\_\_\_



Now practice writing in the **Workbook**. page 17



# Writing

A

Read this compare and contrast report about an imaginary solar system.

#### Title ·

#### The FWCP Solar System

#### Introduction

What is it like to live in a solar system filled with color? In my imagination, I visited the FWCP solar system in the Milky Way galaxy. FWCP means "Filled with Colorful Planets." FWCP and our solar system are alike in many ways, but there are also many differences between them.



#### **Similarities**

FWCP and our solar system are alike in three important ways. First, FWCP has eight planets that travel around a star like our sun. Next, FWCP has an asteroid belt like ours. Finally, the inner planets of FWCP are smaller than the outer planets, just like in our solar system.

#### Differences

However, FWCP is different than our solar system. First, each planet in FWCP has a bright, colorful surface. Some planets in our solar system are not as colorful. Next, there are no moons in FWCP. Finally, all the inner planets in FWCP have people. In our solar system, only Earth has people.

#### Conclusion

FWCP is an interesting place. I will visit it again very soon. When I compare FWCP to our solar system, I can understand more about the universe.

# Answer the questions.

- 1 How are the two solar systems alike?
- 2 How are the two solar systems different?

#### Learn

#### **Compare and Contrast Report**

- Start your report with an introduction paragraph.
- Describe how two things are alike in the second paragraph.
- · Describe how two things are different in the third paragraph.
- End your report with a conclusion paragraph. This should have a strong, final thought.

#### **Review the Writing Process**

- Brainstorm your ideas and write them down.
- Organize your ideas into groups.
- Take your ideas and put them into paragraphs.
- Revise what you wrote.



Now go to the **Workbook** to plan and write your own compare and contrast report. page 18

# **Project: Creating a Model**

- Create a model of the solar system. Then present it.
  - In your group, you will make a solar system model.
  - Decide what you will use to make the model, who will make each part, which parts your group will compare and contrast, and what each student will say.
  - Write down some words to help you remember your ideas.

- Use compare and contrast words, such as but and however.
- Practice your presentation with your group.
- Show your model and give your presentation to the class.
- Make eye contact with other students, gesture toward your model, and speak in a loud, clear voice.





- Watch the video.
- Think more about the Big Question. What did you learn?
- Complete the Big Question Chart.

What did you learn about our place in the universe?



In units WATCH LEARN READ 3 and 4 how we know about ancient soldiers a video about you will: uncovering the past. and a boy's discovery. about the past.

Big Question 2





# How do we know what happened long ago?

- 🔼 Watch the video. 🔃
- B Look at the picture and talk about it.
  - 1 What is the boy taking a picture of? Why is he taking a picture?
  - Where do you think the boy is? What else do you think is in this place?
- Think and answer the questions.
  - 1 Why do people want to learn about the past?
  - 2 What time in the past do you want to learn more about?
- Fill out the Big Question Chart.



What do you know about studying the past? What do you want to know?



# **Get Ready**

#### Words

A Listen and read the words. Listen again and say the words. 🕥 1-16



B) Write the following words in the correct places on the chart below. Then talk about your answers.

tomb

armor clay emperor jade soldiers archaeologist peasant uniforms

People	Things to Wear	Things to Create Something

- Circle the correct answer.
- This is worth a lot of money. clay treasure
- **2** Some people are buried in this. tomb army
- This keeps a country or town safe. peasant army

clay

peasant

4 This keeps a person's body safe. uniform armor

## **Before You Read**



Think When someone discovers an important item from the past, who should it belong to? Why?

# Learn Author's Purpose

Every author has a purpose, or reason, for writing. There are three main purposes.

Persuade: to make you believe or do something

**Inform:** to give you information or facts Entertain: to make you enjoy the story

Circle the author's purpose for each paragraph. Talk about your answers with a partner.

The copper coin's diameter is 23 millimeters. It has the name and face of a Roman emperor on it. He ruled from AD 306 to 337.

to persuade

to inform

to entertain

2

The archaeologist looked into the dark tomb. He was excited, but he was nervous, too. Slowly, he stepped forward. His torch brightened a room full of gold and jewels!

to persuade

to inform

to entertain

3

We should not sell old treasure that we find. We should display it in museums. The history of the world belongs to its people.

to persuade

to inform

to entertain

Words in Context Scan the reading on pages 30–31 and circle these words. As you read, guess what the words mean.

> battle coffin generals varnish

Look at the pictures of the clay soldiers in the reading. How would you describe them to someone who doesn't know what they look like?

#### PREVIEW

# **Hidden Army:** Clay Soldiers of **Ancient China**

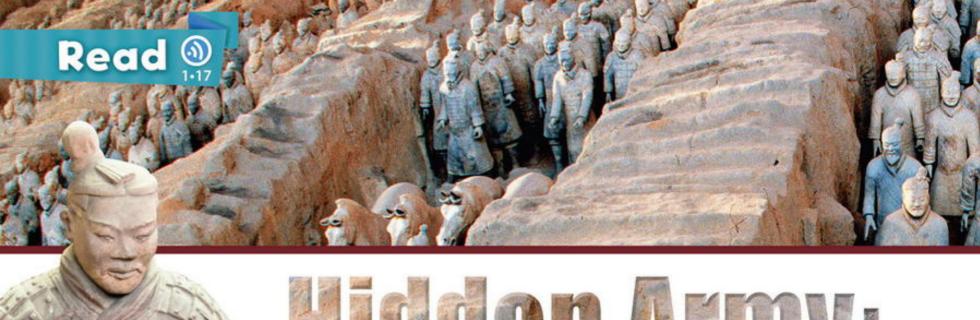
In this magazine article, you will read about the discovery of a large army of clay soldiers in China. A magazine article gives information and often has colorful pictures. As you read, remember to ask yourself about the author's purpose.

#### Social Studies: History



Jane O'Connor is the bestselling author of over 30 books for children, including the fun and popular Fancy Nancy series. She lives in New York City.





# Hidden Army:

It is 210 BC and the moment before battle. The Chinese emperor's army is ready to charge. The soldiers—thousands of them—are lined up, row after row, as far as the eye can see.

However, the army will never attack. The soldiers are not real. They are the size of real soldiers. But they are made of terra-cotta, a strong kind of clay. They are more than 2,000 years old.

What is the author's purpose in the first paragraph?

Amazingly, no two soldiers are alike. Their faces are different. Some are old; some are young. Some look tired; some look like they can't wait for the battle to start.

Their uniforms are different. The uniforms are exact copies of what real soldiers wore. The archers and foot soldiers were the lowest-ranking soldiers, so they have the plainest uniforms.

The generals, of course, wore the most elegant uniforms. Some of their caps had feathers. Sometimes their shoes turned up at the toes. Their armor had small iron rings that look like fish scales.

Here you see an image of a clay general. It shows how he looked 2,000 years ago. Every single soldier in the emperor's army was painted with bright colors. So were the terra-cotta horses. Now most of the soldiers have only tiny traces of paint left. Scientists are trying to create a special varnish to brush over painted figures to hold the paint in place.

# Think-

What is the author's purpose for this paragraph?



# Clay Soldiers of Ancient China

Today, craftsmen near the pits where the soldiers were found make copies of the soldiers. This helps archaeologists learn more about how people made the original army. Modern craftsmen have much better kilns than those in ancient times. Kilns are ovens that bake clay until it hardens. Yet no copies ever come out as hard or shiny as the originals. Why? Nobody knows—it is a mystery.

An even bigger mystery is what lies inside the emperor's tomb. Nobody knows the answer because the tomb has never been opened. The Chinese government plans to keep it closed for now. Work will not start until archaeologists are sure the tomb can be opened without damaging any of the treasures inside.

As for the emperor's body, according to historical records, it rests in a heavy, bronze coffin.

In ancient times, the custom was to dress the dead body of someone important in a suit the Chinese made from hundreds of pieces of thin jade. At that time, jade was more precious than gold.

The emperor died when he was 49 years old. Three years after his death, peasants rose up against the empire. One of their leaders started a new royal family.

Yet now, millions of people come to the emperor's burial place. They visit the covered pits to see the clay soldiers. The emperor lives on in the memory of all who see his amazing hidden army.

#### Think

What is the author's purpose for the entire reading?

# **Understand**

# Comprehension



Think What does the discovery of the terra-cotta soldiers teach you? What else do you want to know about life in China 2,000 years ago?



- What is the author's purpose for each sentence below? Write the number for each sentence in the correct box. Talk about your answers with your partner.
  - The Chinese emperor's army is ready to charge.
  - 2 The emperor died when he was 49 years old.
  - 3 The terra-cotta soldiers are more than 2,000 years old.
  - 4 It is the moment before battle.
  - 5 Some look like they can't wait for the battle to start.
  - 6 Their armor had small iron rings that look like fish scales.

To Inform	To Entertain
	1



- B Circle True (T) or False (F).
  - 1 Every terra-cotta soldier looks exactly the same.
- 2 The terra-cotta horses were colorful a long time ago.
- 3 The original clay soldiers were shinier than the copies.
- 4 Archaeologists know what's inside the emperor's tomb.
- **5** Many people come to see the terra-cotta soldiers.
- Words in Context Match each word to its definition. Write the letter.
  - battle \_\_\_\_
- a a clear liquid that keeps something looking new
- 2 general \_\_\_\_
- **b** a box that a dead body is put into
- 3 varnish
- c a fight between armies in a war
- 4 coffin
- **d** a very important officer in an army

#### Grammar in Use

D Listen and sing along. The Archaeologist 🕥 1-18

I'm an archaeologist,
And I love to study the past.
I like to hunt and then to dig
And uncover things at last!

A piece of ancient armor,
Or jade or cloth or clay,
I promise to share my treasures
To show the past today.



- Look at ①. Which verbs start with to?
- E Learn Grammar Verbs Followed by Infinitives

Some verbs are often followed by an **infinitive**. An infinitive is a verb with the word **to** in front of it.

The Chinese government plans to keep it closed for now.

verb infinitive

#### Match the two parts of each sentence. Then circle the infinitives.

- 1 All the students promised •
- a to find more terra-cotta soldiers.
- 2 The archeologists tried
- b to build the clay army.
- 3 The emperor decided
- o to study hard for the history test.

I forgot to pack my

Make a chart like this one. Use infinitives with the verbs forgot and promise. Then talk about your ideas with a partner.



I forgot	I promise
to pack my lunch	

# Communicate

# Listening



Think How were people's lives in the past different from your life?



Learn Listening for Similarities and Differences

When you listen to people talking about the past, try to listen for similarities and differences with the present time.



#### Listen and match. 119

#### **Ancient Town**

- 1 The houses had an upstairs floor and a downstairs floor.
- 2 It had a stone wall around it.
- 3 Salt was valuable and kept food fresh.

#### Now

- a This product is now cheap. Refrigerators keep food fresh.
- **b** Many modern houses have this, too.
- Modern towns don't have this around them.

# B Listen again. Write the correct answer. 🕥 1-20

- 1 Where did the students get their information? \_\_\_\_\_
- 2 How old is the ancient town?
- 3 How were bricks made in this town?

# Speaking 10 1-21

If you had a time machine, what place and time would you like to go back to and visit? Talk about it with your partner and give reasons.



I'd like to go back to ancient Greece.

Why would you choose that place?

I'd like to see ... What about you?

I'd like to ...



# **Word Study**



# Learn Words with the Suffix -ist

The suffix -ist is often used for jobs or professions.

This helps an archaeologist learn more about how people made the original army.



Listen and read the words. Circle the suffixes. Then listen to the sentences. Write the -ist words you hear in your notebook. 1-22

> dentist cyclist cartoonist florist tourist pianist



# **Writing Study**



## Learn Verb Tenses

Keep your verb tenses the same in a paragraph or a piece of writing. This will help your writing be clear.

The first emperor died when he was 49 years old. Three years after his death, peasants rose up against the empire.

Read the paragraph. Cross out and change the verbs that are in the wrong tense.

uncovered In 2007, a man in Vienna had a garden. He uncovers over 200 pieces of buried treasure. He finds rings, belt buckles, and many other items that were over 650 years old. Later, he took the treasure to a government office. The people there are very excited when they see the rare items. They wait in a long line to see the treasure that the man find.

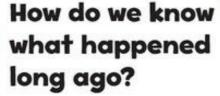


Now practice writing in the Workbook. page 28

Vocabulary: Words with the Suffix -ist • Writing: Verb Tenses Unit 3



# BIG QUESTION 2





We uncover and study old objects.

> Archaeologists help us understand the objects.



35



## **Get Ready**

### Words

A Listen and read the words. Listen again and say the words. 10 1023



- B Circle True (T) or False (F).
  - Dinosaurs are alive on Earth today.
     Burning wood can make ash.
     Sedimentary rock is in the ground.
     A layer is round like a ball.
     Plants have skulls.
  - 6 Studying at school is a pastime.
  - 7 A ravine can be hard to climb out of.



- Answer the questions.
  - 1 What do paleontologists examine? \_\_\_\_\_
  - 2 Why do people excavate an area when they discover a bone there?

### **Before You Read**



Think Why do people like to find objects from the past? What can you learn from an old object?

### Learn Predictions

A prediction is what you think will happen. As you read, try to make predictions. Use clues from the reading and your own knowledge to predict. You can predict by using the word will.

What the Story Says	My Prediction	
Dark clouds cover the sky.	Rain will come.	

Read the sentences below. Predict what will happen. Write.

Jamaal hiked for four hours in the hot sun this afternoon. Then he came home and ate a big dinner. Finally, he worked on his homework for two hours. Now he is very tired.

I	predict_	
	THE PERSON OF TH	

2 The paleontologist uncovered many of the dinosaur's bones in the ravine. However, she didn't have the skull yet. Suddenly, she brushed the dirt away from a large, shiny bone in the ground. A huge smile spread over her face.

I predict	
	A THE LAND

Words in Context Scan the story on pages 38-39 and circle these words. As you read, guess what the words mean.

> favorite dream tripped determine

- Answer the questions before you read.
  - 1 What do curious people do when they find something new?
  - 2 When were you curious about something? What were you curious about?
  - 3 Is it good to be curious? Why or why not?

### PREVIEW

### Stumbling upon the Past

In this realistic fiction story, a boy named Javier makes an amazing discovery in his small town in Spain. A realistic fiction story has characters, problems, and settings that seem real. As you read, try to predict what will happen throughout the story.







# Read (a) Stumbling upon the Past

avier was a nine-year-old boy who lived with his parents in the hillside town of Ademuz in the province of Valencia in Spain. Javier was a curious and energetic boy. His favorite pastime was to explore the hills and open fields around his town.

The neighboring village of Riodeva, just 26 kilometers away from Ademuz, was famous because of a great discovery there. In 2003, paleontologists found the bones of the largest dinosaur in Europe in a wheat field near the little village. When it was alive, this animal was over 38 meters long and had the weight of seven elephants.

Javier liked dinosaurs more than anything else in the world. He also believed that there was an amazing dinosaur bone buried somewhere near his own town of Ademuz. His dream was to be the first person to find it.

One summer morning, Javier was exploring in a field near a ravine just outside of the town. He looked up to see his two friends,

> Fernando and Pepe, running toward him with a colorful kite.

Do you think that Javier will be the first person to find a bone? Why or why not?

"Let's fly it, Javier!" they shouted.

Javier enjoyed playing with his friends. He quickly forgot about his exploring and grabbed the string of the kite. As he ran, the kite lifted into the sky. The boys cheered. Suddenly the kite spun around and dove into the ravine.

"I'll get it," shouted Javier. He ran down into the ravine. As he reached for the kite, his foot caught on something. He fell to the rocky ground with a crash. His two friends ran up as he rubbed his head.

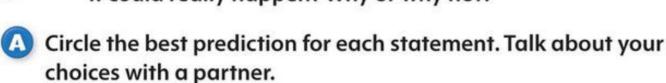
"I think so," said Javier. He looked down at a rough, gray object sticking out of the ground. "I tripped on that," he said. "It looks like a rock," said Fernando. Javier looked carefully at the object. "I don't think Predict what the it's a rock," he said excitedly. "I think it's something else!" rough, gray object is. "Let's pull it out," said Pepe. "No," said Javier. "It's better to leave it right here." Javier and the boys ran home to tell Javier's parents. Javier's father spoke to the mayor of the town, who contacted the Paleontology Foundation. The next day, a paleontologist from the foundation came to the town. He followed Javier to the ravine and examined the boy's discovery. "It could be a dinosaur bone," he said. "If it is, we'll need to determine how old it is." "How do you do that?" asked Javier. "This bone was buried in sedimentary rock, which lies in layers under the ground. We'll look for volcanic ash below and above this rock layer. Through a special process, we can find out the ages of those layers of ash. Then we'll know that the dinosaur died sometime between those two ages." Soon, many paleontologists began excavating the area around the bone. They found more bones, as well as a skull. It was a unique dinosaur they didn't know about. Television reporters came to the town and spoke to Iavier about the bone he discovered. "This dinosaur will need a name," said one reporter. "What do you think it should be called?" "That's easy," said the man from the What do you predict Paleontology Foundation. "We'll call it the dinosaur will be called? the Javiersaurus!"

## **Understand**

### Comprehension



Think Talk about the story with your partner. Do you think it could really happen? Why or why not?



- 1 The paleontologists found all the bones of Javier's dinosaur. What will happen next?
  - They will stop looking and go back to their homes.
  - They will ask Javier to look for more bones.
  - C They will look for more dinosaur bones in the ravine.
- 2 The dinosaur will be called the Javiersaurus. What will happen next?
  - Fernando and Pepe will be angry.
  - Fernando and Pepe will be happy for Javier.
  - Fernando and Pepe will not be friends with Javier.
- 3 Javier is very interested in dinosaurs. What will happen next?
  - He will become a paleontologist someday.
  - He will become a mayor someday.
  - He will stop looking for dinosaur bones.

### B Answer the questions.

- 1 How was the dinosaur in Riodeva special?
- 2 Why was Javier in the field when Fernando and Pepe ran up to him?
- 3 What do paleontologists look for above and below sedimentary rock?

### Words in Context Match each sentence to an explanation.

- 1 His favorite pastime was to explore the open fields.
- 2 His dream was to be the first person to find it.
- 3 "We'll need to determine how old it is."
- 4 "I tripped on that," he said.

- a This means that he always thought about doing this thing someday.
- **b** This means that they need to find out or discover this information.
- c This means that he hit his foot against something and fell down.
- d This means that he enjoyed doing this activity more than any other activity.



### Grammar in Use

D Listen and read along. 🕥 1-25



- Read the sentences below. Which words end in -ing? a I don't like getting my hands dirty. b Now they enjoy digging in the garden!
- Learn Grammar Verbs Followed by Gerunds Remember, gerunds are verbs that end in -ing. Gerunds can act like nouns. Verbs like enjoy, finish, and practice are often followed by gerunds. Javier enjoyed playing with his friends. verb gerund

Read each sentence. Circle the gerunds. Underline the verb in front of each gerund.

- 1 When it began raining, the excavation team went inside.
- 2 The museum staff finished cleaning the dinosaur bones.
- 3 Thomas liked examining fossils as a pastime.
- 4 The paleontologist doesn't like working in the rain.
- Make a chart like this one. Use gerunds. Then talk about it with a partner.

I enjoy	I don't like	
swimming		
		Alle

I enjoy swimming in a pool on a hot day.

## Communicate

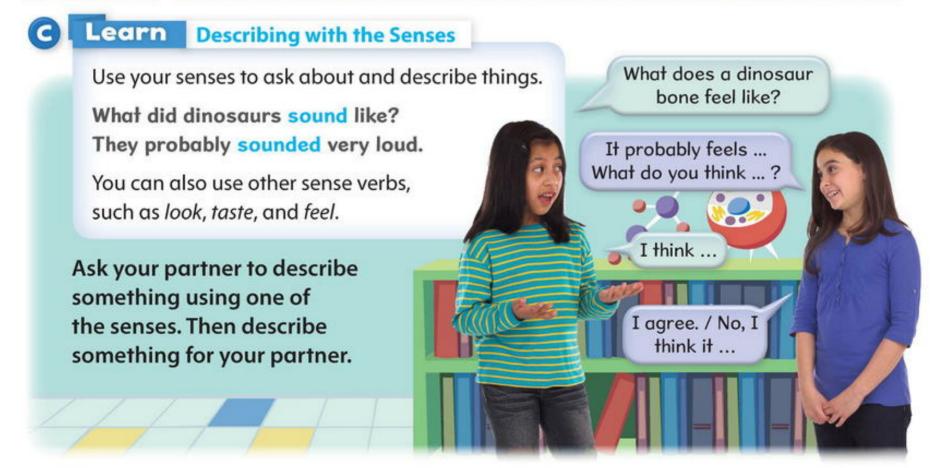
### Listening



- A Listen. Why did the sun and the moon go into the sky? 1-26
- B Listen again. Number the events in the correct order. 1-27
  - \_\_\_\_ The ocean filled half of the house with water.
  - The ocean came to visit the sun's house.
  - \_1\_ The sun built a bigger house for the ocean.
  - \_\_\_\_ The sun and the moon went up into the sky.
  - \_\_\_\_ The ocean filled all of the house with water.



### Speaking 1 1-28



### **Word Study**



Learn Words with ie

Together, the vowels ie can have a *long e* sound in a word.

Javier explored the open fields around his town.



Listen and read the words. Circle the vowels that make a long e sound. Then listen to the sentences. Write each ie word in your notebook. 1 1-29

thief grief relief piece brief niece



### **Writing Study**



Learn Count and Noncount Nouns

Count nouns can be singular (one thing) or plural (more than one thing). A singular count noun takes a singular verb. A plural count noun takes a plural verb.

The dinosaur bone is very large.

Many dinosaur bones are still buried under the ground.

Noncount nouns always take a singular verb.

A lot of volcanic ash was above the bone.

A little water is in the ravine.

### Read the sentences. Circle the correct verb.

- 1 Sedimentary rock was / were above and below the bone
- 2 Dinosaurs was / were on Earth a long time ago.
- 3 Light clothing feel / feels good when you are excavating in hot weather.
- 4 The skull look / looks like it might belong to a meat-eating dinosaur.





Now practice writing in the **Workbook**. page 36



### Writing

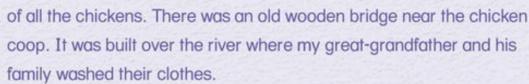
Read this descriptive report about an old photograph.

### Title · A Picture from the Past

Introduction

Yesterday I found a picture of my greatgrandfather when he was only ten years old. Because of this photograph, I learned a lot about the past.

In the picture, my great-grandfather stood on a farm with a basket of eggs. Far behind him was a chicken coop. I can imagine the clucking sounds



My great-grandfather wore a simple cotton shirt, rough jeans, black leather shoes, and a wide straw hat to protect him from the sun. My mother said that people made some of their own clothes back then. Because of this picture, I learned that my great-grandfather lived simply. He worked hard on the farm to help his family. His family didn't have a lot of money, but my great-grandfather looked very happy and healthy.

Body

Conclusion

### B Answer the questions.

- 1 How did the great-grandfather and his family get food?
- 2 Why was the river important to the great-grandfather and his family?
- 3 Who do you think made the great-grandfather's clothes?

### Learn Descriptive Report

- In the introduction, tell the reader about the subject you will describe.
- Describe your subject with many details in the body. Describe with your senses to paint a picture in your reader's mind, and use details to explain what you learned.
- Summarize what you learned in the conclusion paragraph.



Now go to the Workbook to plan and write your descriptive report. page 37

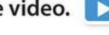
### Project: Creating a Time Capsule

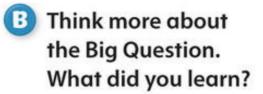
- Create a time capsule of important items. Then present it.
  - In your group, think of things that are important to you today. You will create a time capsule for these things.
  - Choose your time capsule container. You can use a box, a bag, a backpack, or anything you have.
  - Put real objects, photos, or drawings that show important things into your group's time capsule.
- For each item you put into the time capsule, write a short statement about why it is important.
- Practice your presentation with your group. Each member of the group should show at least one object from the time capsule and talk about it.
- With your group, present your time capsule to the class.





Watch the video.





Complete the **Big Question** Chart.

What did you learn about studying the past?



In units 5 and 6 you will: **WATCH** a video about the world of food. **LEARN**where the food you eat comes from.

**READ**about a special breakfast and how far food travels.



WRITE report.

CREATE

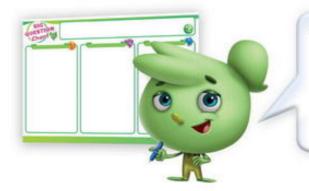




**BIG QUESTION (3)** 

# Where does our food come from?

- Watch the video.
- Look at the picture and talk about it.
  - 1 Where is the boy? What is he doing? What does he have in the cart?
  - 2 What do you think the boy is thinking about? What will he do next?
- Think and answer the questions.
  - 1 What foods do farmers grow in your area?
  - 2 What are your favorite foods?
- Fill out the **Big Question Chart**.



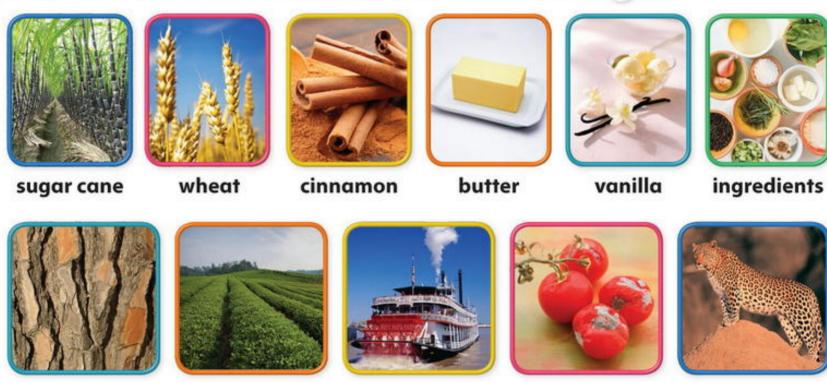
What do you know about where food comes from? What do you want to know?



## **Get Ready**

### Words

Listen and read the words. Listen again and say the words. <a> 1-30</a>



steamship

Match each clue to a word. Write the correct letter.

plantation

1 This is alive and can be dangerous. \_\_\_\_

bark

- 2 You can see and feel this on the outside of a tree.
- 3 This carries people and things on water. \_\_\_\_
- 4 You need these to make a pie. \_\_\_\_
- 5 Most bread is made from this. \_\_\_\_
- 6 On this land, people grow plants to eat or use. \_\_\_\_
- 7 Something sweet comes from this plant. \_\_\_\_
- 8 If food does this, don't eat it. \_\_\_\_

**a** steamship

spoil

leopard

- **b** plantation
- **c** sugar cane
- **d** leopard
- e wheat
- f spoil
- g ingredients
- h bark
- What foods have butter, vanilla, or cinnamon? Why do you think foods have these ingredients? Talk about your answers with your partner.

### **Before You Read**



Think What ingredients are in your favorite dish or meal? Can you make that dish or meal? Why or why not?

### Learn Conclusions

Use information in a reading together with your own knowledge to make a decision about something. This decision is a conclusion.

### Read each paragraph. Then circle the correct conclusion.

Vanilla comes from a bean. It is used to make vanilla ice cream, vanilla pudding, and other tasty snacks. Many people like the taste of chocolate, but some people prefer the taste of vanilla.

- Vanilla comes from cows.
- **b** People use vanilla to make food taste good.
- c Vanilla is the same as chocolate.

2 Wheat is an important plant. It grows in many places around the world, but it is originally from the Middle East. People use wheat to make many foods, such as bread, pasta, and cake. Many people eat wheat every day.

- a Everyone eats wheat.
- **b** Wheat grows in every country.
- c Wheat is very popular.
- Words in Context Scan the story on pages 50-51 and circle these words. As you read, guess what the words mean.

introduce gather peel coax

- Answer the questions before you read.
  - 1 Do you travel to other places? If so, where did you go? What did you see? What did you eat?
  - 2 How is food different in other countries across the world?

### PREVIEW

### The Breakfast DUEST

In this humorous fiction story, a young boy travels the world in search of ingredients. Humorous fiction stories have characters and events that are funny. As you read, stop and ask, What is my conclusion?

**Author Charlotte** Spektor writes children's stories that take place all across the world. She loves food and traveling, and these topics often show up in her stories.





I'm making a special breakfast today: Granny's Famous Cinnamon Buns. "To make the best buns, you need the best ingredients," I tell my sister Sam. So we hop on my bike and ride across town to Farmer Ray's.

"You've come to the right place," says the farmer, pulling on his bushy beard. "My chickens lay wonderful eggs."

At the chicken coop, I gather two smooth, brown eggs and a nervous chicken.

"Cinnamon buns, you say?" Farmer Ray smiles slyly. "If it's butter you're after, you'll need to pack your bags. The best butter I know comes from Denmark."

We all hop on his tractor, catch a plane, and watch as we zoom over the Atlantic Ocean.

In Demark, we head to rolling green fields where we find an enormous, sleepy cow. I introduce myself, my sister Sam, Farmer Ray, and the chicken to the cow's owner, explaining that my grandmother's cinnamon buns are not to be missed.

Draw a conclusion. Could this story

Munn

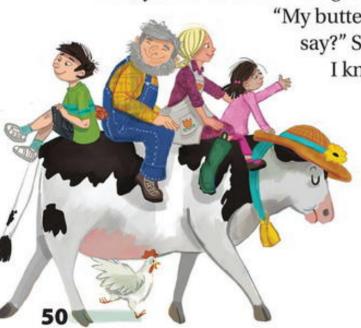
really happen?

"Well, you've come to the right place," says Farmer Lena, spilling some milk from a pail.

"My butter is the creamiest in the world. Cinnamon buns, you say?" She pauses. "If it's flour you need, the heartiest wheat I know comes from France."

> We all ride the cow to the train to France, where we find an amber field of warm, dry grain and meet a French farmer who listens very closely to our plan.

"Well you've come to the right place," says Farmer Francois, twirling his mustache.



"My wheat makes the very best flour in the entire world!" I grab two armfuls.

"Cinnamon buns, you say? If it's vanilla you need, the finest vanilla in all the world comes from Madagascar. Come with me!"

We all hop in his hot air balloon and set off over Africa, looking down on a magnificent leopard roaming the plains.

In Madagascar, we march through the lush hills. There we meet Sabine, a vanilla grower, and I tell her the plan.

"Well, if you're making famous cinnamon buns, you've come to the right place," says Farmer Sabine, her eyes sparkling. "My vines produce the most fragrant vanilla beans in all the world!"

I scoop up a handful of the heavy, brown vanilla beans.

"Madagascar grows sugar cane and cinnamon, too," says Farmer Sabine. "Let me take you to my friend Patrick's plantation." Patrick listens to the plan.

"True, I have the sweetest sugar cane and the very best cinnamon in the world," he says. "Sugar cane I can give you, but..." He looks sad. "I'm afraid I can't help you with cinnamon. I'm all out! We harvested it yesterday."

"No cinnamon for the cinnamon buns!" we cry. "Now what?"

Something high atop a tree catches my eye: a small area of bark. I climb the tree and peel some off. "This will do," I say, grinning at the relieved crowd.

We coax the cow and the chicken onto a steamship and head

home before the ingredients spoil, mixing up a batch of Granny's Famous Cinnamon Buns along the way.

"Well?" I ask as everyone chews and smiles.

"You were right!" say the farmers. "These are truly the very best cinnamon buns in all the world!" Now, what should I make for lunch?

### Think

Draw a conclusion. What will the boy do now?



## Understand

### Comprehension



Think What makes this story funny? Tell your partner about three funny events in the story. Then tell your partner if you think these events could really happen or not.



Match the food to where it comes from. Use information from the story. You have to draw conclusions to match some of the items.

### Where Do They Come From?

- 1 eggs

a cows

- 2 butter

b bark

3 flour

c chickens

4 cinnamon

d beans

- 5 sugar

e wheat

6 vanilla

sugar cane

### Answer the questions.

- 1 Why does the boy go to so many different places?
- 2 How did everyone get from Denmark to France?
- 3 Why did the boy climb a tree in Madagascar?

### **Words in Context** Match each verb to a definition.

- 1 gather
- a to meet someone and tell them your name

- 2 coax
- b to come or bring together in a group
- 3 introduce •
- to take the outside part off of something

- 4 peel
- d to try to get someone to do something



### Grammar in Use

Listen and sing along. Vanilla Pudding 1-32

We're making vanilla pudding tomorrow With milk from a country cow And sugar from Puerto Rico. I'm dreaming about it now! We're making vanilla pudding tomorrow With all the best ingredients, Cinnamon from Sri Lanka And sweet butter from France!



- Read the sentences. Which action is happening now? Which action will happen in the future?
  - **a** We're making vanilla pudding tomorrow.
- **b** I'm dreaming about it now.
- Learn Grammar Present Continuous for Future Plans

The present continuous tense can tell about future actions that someone plans. Include the future time when you use this tense.

I'm making a special breakfast today.

Read each sentence. Underline the present continuous tense. Then circle the future time word or words.

- We're playing soccer after school today.
- 2 My parents are having dinner at a nice restaurant tomorrow.
- 3 I'm meeting my friends at the station at 1:00 p.m.
- 4 Carol and I are baking cookies next week.

Make a chart like this one. Then talk to your partner about it.

My Plans This Weekend When I Will Do Them clean my bedroom Saturday morning

I'm cleaning my bedroom on Saturday morning.

## Communicate

### Listening

Think What food from plants do you eat? Which one is your favorite and why?

Listen. Match the food group to two examples. Then fill in the blank with an example that you hear from the list. (1) 1-33

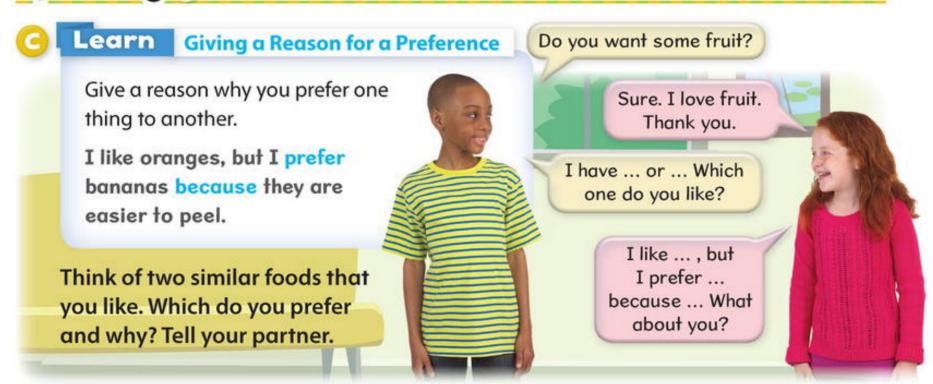
	<b>Food Group</b>		Examples I Heard	black beans
1	whole grains	•	spinach, broccoli,	carrots
2	vegetables	• \ • !	soybeans, chickpeas,	oranges pecans
3	fruits	• \ • •	almonds, flaxseeds,	rice
4	beans	•	bread, spaghetti, <u>rice</u>	
5	nuts and seeds	• •	apples, blueberries,	

Listen again. Fill in the chart. 1-34

Food Group	1 whole grains	2 vegetables	3 fruits	4 beans	5 nuts and seeds
Percentage of Food	35%				



### Speaking 10 1.35



### **Word Study**



### Learn Phrasal Verbs with Drop

Some phrasal verbs begin with the verb drop and are followed by a preposition.

The farmer dropped off her vegetables at the market.



Listen and read the words. Circle the prepositions. Then write sentences using phrasal verbs with drop in your notebook. 1-36

> drop by drop back drop off drop out



### **Writing Study**



### Learn Interesting Adjectives

Interesting adjectives can improve your writing. Compare the sentences below.

My chickens lay good eggs.

My chickens lay wonderful eggs.

Wonderful is a more interesting adjective than good. Interesting adjectives can help you describe your ideas clearly in your writing.

Underline the adjective in each sentence. Then choose a more interesting adjective from each set. Talk about your choices with your partner.

1 The crash in the kitchen was so loud. bad noisy

fearful **2** Timmy was scared of the thunder outside. afraid

3 Miguel did not like the cold weather. freezing cool



Now practice writing in the Workbook. page 47

Vocabulary: Phrasal Verbs with Drop • Writing: Interesting Adjectives

BIG QUESTION [3]



Where does our food come from?



Food comes from different countries around the world.

> Some food grows on plantations.



55



## **Get Ready**

### Words



convenient

export

local

process

package

farmer's market

agriculture

corporate farm

decrease

century

chemical

- 1 Cooking food in a microwave oven is convenient.
- 2 Some countries export fruits to other countries.
- 3 The local supermarket is a good place to meet people.
- 4 Companies process apples into apple juice.
- 5 Workers package food and send it to supermarkets.
- 6 My family visits the farmer's market in the summer.
- 7 Modern agriculture helps people have enough food.
- 8 A corporate farm has big machines and many workers.
- 9 Some people want the distance their food travels to decrease.
- 10 Many changes happened in farming in the last century.
- 11 Some chemicals are bad for people and animals.
- Two of the three words are correct. Cross out the wrong answer.
  - 1 People may do this to food before they sell it. local process package
  - 2 We can get food from this place. farmer's market century corporate farm
  - 3 This describes some food in a supermarket. local convenient decrease
  - 4 This is a way to provide food for people. agriculture export convenient
- Complete the sentences with the correct words below.

chemicals century export

A \_\_\_\_\_ ago, farmers used very few \_\_\_\_\_ on their crops.

Countries didn't \_\_\_\_\_ as much food as they do now either.

### **Before You Read**



Think What animals and plants do farmers raise and grow in your area?

### Learn Summarize

Summarize a reading to show that you understand it. You can summarize a reading in two steps:

- 1 Find the most important ideas and details in the reading.
- 2 Briefly rewrite these ideas in your own words.

Read each paragraph. Then summarize the paragraph in one or two sentences.

Are you cooking squash for dinner? There are many kinds. Acorn squash is round and sweet. Banana squash is long. However, it doesn't taste anything at all like a banana!

There are many kinds of squash with different shapes and tastes.

2

If you feel sick, have some broccoli. This short, green plant is part of the cabbage family. Broccoli is full of vitamins and has calcium, just like milk! Many people call broccoli a "superfood."

Words in Context Scan the reading on pages 58-59 and circle these words. As you read, guess what they mean.

> food labels grocery stores organic food whole food

Scan the reading for country names. What country names can you find? What do you know about food from these countries?

### PREVIEW

### From the World to Your Table

In this informational text, you will read about how far food travels to feed people around the world. Informational texts are full of facts and ideas about a subject. As you read, summarize the main ideas.

### Social Studies: Geography





# From the World to

The next time you eat dinner, look closely at the food on your plate. If you are eating in the summertime, it's possible that some of the food comes from your own garden. Some might come from the local farmer's market. However, most of your food probably comes from far away.

For centuries, people grew their own food and ate it themselves, keeping some for the long winter. In some countries, people continue to do this. However, agriculture has changed a great deal in the last 100 years. Most people no longer grow their own food. They buy it in supermarkets and grocery stores. Some of the food they buy comes from small family farms, but much of it comes from large corporate farms. Companies process and package most of this food before it gets to the supermarket.

For example, they make orange juice from oranges. They also make flour from wheat, and then they make bread from the flour!

Would you like to know where your food comes from? You can check yourself. Most food labels give this information. You may be surprised at what you discover. The map below gives just a few examples of countries that export food to places around the world.

Thanks to modern agriculture, people around the world can enjoy apples from South Africa, pineapples from Costa Rica, and tomatoes from Mexico. They can eat pasta from Italy, kimchi from Korea, and cheese from Holland. They can enjoy this food without traveling

to these places.
Instead, the food travels to them.

Summarize what you just read in one or two sentences.

Think



# Your Table

"Food miles" is the distance that food travels to get to us. For example, a person who lives in Japan may buy kiwifruit that comes from New Zealand. This kiwifruit has to travel 5,800 miles (9,300 kilometers) to get to this person. Airplanes, ships, trains, and trucks may bring this food. This transportation uses a lot of fuel that can cause pollution. When food travels, some of it needs to stay cool, which takes more energy and fuel. Also, companies put chemicals on food to help it last longer while it travels. These chemicals may not be good for our health.

In our modern world, most people can't grow all the food they need. However, there are four things you can do to help decrease energy and keep food healthy and delicious:

- Buy food that farmers grow in your area.
- Buy organic food, which doesn't have chemicals on it.
- Buy whole food with less processing and packaging.
- Try to grow more of your own food!

It's convenient to buy food from all around the word. However, there may be farmers very close to you who grow the same food. By choosing local food, you can save energy, improve your health, and help local businesses. As people say, "Eat locally, think globally!"



Summarize what you just read in one or two sentences.





Summarize the entire article in three or four sentences.



## Understand

### Comprehension



Think How does this reading change the way you look at food? Tell your partner three ways you think differently now.



Summarize three problems caused by eating food from far away. Then summarize the solutions to these problems.

Problems	Solutions
1 Food transportation can cause	
pollution.	
2	
3	



- Answer the questions.
  - 1 What is a quick way to find out where food in a supermarket comes from?
  - 2 Why don't people have to travel to other countries to get the food they want?
  - **3** Why is buying food from local farmers a good idea?
- Words in Context Match each phrase to a picture.
  - 1 grocery store
- 2 food labels
- 3 organic food
- whole food



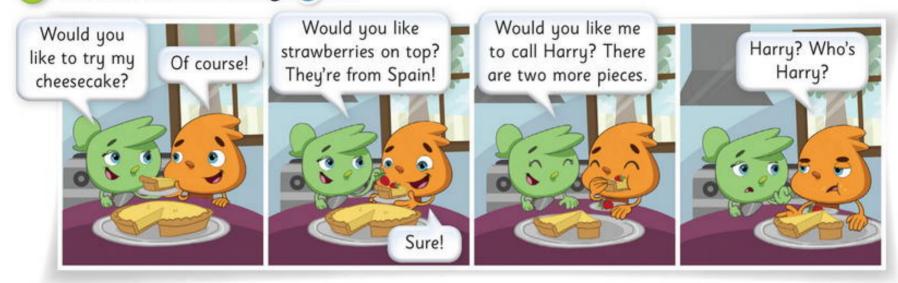






### Grammar in Use

D Listen and read along. 1 1-39



- Read the sentences. Which one asks about an action? Which one asks about a thing?
  - a Would you like strawberries on top?
- **b** Would you like me to call Harry?
- F Learn Grammar Polite Offers

Use Would you like ...? to make a **polite offer**. You can use this phrase to offer an action or a thing.

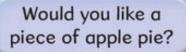
Would you like to know where your food comes from? (action)

Would you like a delicious apple from South Africa? (thing)

### Circle the correct answer.

- 1 Would you like to / a banana for a snack?
- 2 Would you like to / a bake a cake with me?
- 3 Would you like to / a piece of pizza?
- What is something you would like? What is something you would like to do? Make a chart like this one. Then make polite offers to your partner.

Something I would like Something I would like to do a piece of apple pie





## Communicate

### Listening

Think Why is it important to find new ways to grow food?

- Listen. Match each type of farming to two reasons why it is good. 1-40
  - Terraced Farming
- **b** It keeps buildings cooler.
- 2 Hydroponic Farming
- c The soil doesn't wash away.

a It doesn't need soil.

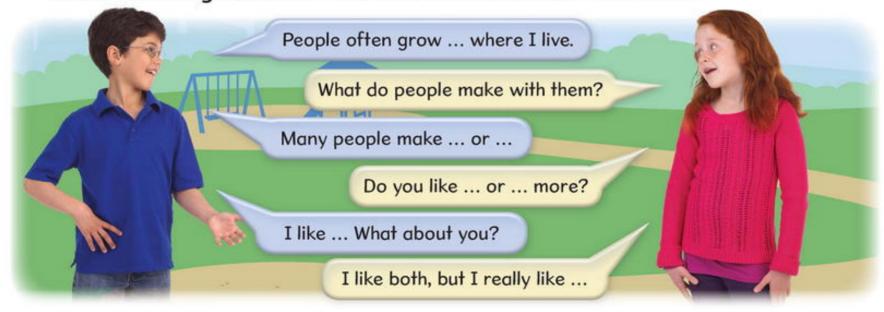
- **d** Fewer trucks are needed in the city.
- Plants need less water to grow.
- **Rooftop Farming**

- It's good for plants that need lots of water.
- 🛐 Listen again. Then circle the correct answer. 🕥 1-41
  - 1 Which type of farming is the lettuce farm in Belgium? hydroponic terraced rooftop
  - **2** Which type of farming is the rice farm in Vietnam? rooftop hydroponic terraced
  - 3 Which type of farming is the vegetable farm in Hong Kong? terraced hydroponic rooftop



### Speaking 1 1-42

What vegetables or fruits do people grow in your area? Talk to your partner about these vegetables or fruits and two dishes made with them.



### **Word Study**



### Learn Four-syllable Words

Large words can have many syllables. You can hear the syllables in a word more clearly if you say the word slowly. When you say the word normally, the syllables blend together.



Agriculture has changed a great deal in the last 100 years.

If you say *agriculture* slowly, it sounds like *ag-ri-cul-ture*.

Listen. Repeat each word slowly and then normally. Then write each word divided into syllables. Use your dictionary to help you. 143

introduction	dictionary	environment	geography	conversation	photographer
introduction	aictionary	environment	geograpny	conversation	pnotograpn

1	introduction	in-tro-duc-tion	_ 4	geography	
2	dictionary	G	_ 5	conversation	
3	environment	<u> </u>	6	photographer	

### **Writing Study**



### Learn Prepositional Phrases of Location

Prepositional phrases of location tell where something is. They include a preposition and its object. The object is a noun or a pronoun.

The garden is behind the house. prep.

The asparagus is near the carrots. object prep.



### Read each sentence. Underline the prepositional phrase of location.

- 1 The rice is between the green beans and the soup.
- 2 The chocolate chip cookies are on the shelf.
- 3 The flower bulbs are under the ground all winter.
- 4 The potato plants are next to the tomato plants.



Now practice writing in the **Workbook**. page 55



### Writing

Read this research report about where food comes from.

### The Food on Your Plate Title

Introduction

Look at the food on your plate. Each food probably comes from a different place. When my mom made lasagna last week, I learned a lot about where food comes from.

As my mom prepared the ingredients, I looked at all of the labels. I discovered that the pasta and canned tomatoes came from Italy, and the eggplant came from Mexico. In fact, all of the vegetables were from other countries except for the zucchini. My grandmother grew it in her garden!

I asked my mom about spices. She showed me an interesting book about them. My mom uses salt from China and black pepper from Vietnam. The book explained that China and the United States produce 40 percent of the world's salt, and Vietnam exports more black pepper than any other country. Finally, I wanted to know about the sauce, so I looked up the sauce company on the Internet. They make it right here in our city!

As you can see, our food comes from many different places. Hopefully I can Conclusion visit all of these places someday. That would certainly be a world tour!

Answer the questions.

Body

- 1 What two foods in the lasagna came from places near the writer?
- **2** What are some of the countries that the ingredients came from?
- 3 Where did the writer find information about the ingredients?

### Learn **Research Report**

- Get information from books, people, and the Internet. This information is your research.
- Write an introduction that includes your main idea.
- Write paragraphs using your research. Each paragraph should have details and examples that support your main idea.
- Write a conclusion that summarizes your research in an interesting way.



Now go to the **Workbook** to plan and write your own report. page 56

### **Project: Creating a Story**

- Create a story about food from around the world.
  - In your group, read your research reports aloud.
  - Talk about what you like about each report. Then choose one report. Your group will write a fictional story about it. Look at "The Breakfast Quest" for ideas on how to write your story.
  - Give your story a title. Then plan the characters, the ingredients, and where the ingredients come from.

 Draw pictures of the ingredients in your story. Write down words you want to remember on the back of the pictures.

- Choose who will present each part of the story or who will be each character.
- Practice telling your story with your group.
- Tell your story to the class. Show your drawings, make eye contact, and speak loudly and clearly.

Then we'll sail to Papua New Guinea for the best bananas.

Off we go in a plane to Morocco! We'll get prickly





Where does our food come from?

Watch the video.



- Think more about the Big Question. What did you learn?
- Complete the **Big Question** Chart.

What did you learn about where food comes from?



In units WATCH LEARN READ 7 and 8 a video about art about the reasons about real artists and you will: and artists. artists create art. a boy who loves art. 66 Big Question 4

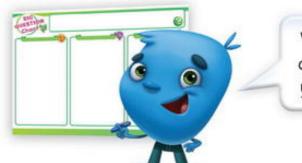
WRITE an opinion essay.

ACT in a play.





- Match the video.
- B Look at the picture and talk about it.
  - 1 Where are the girls? What do you see in this place?
  - What are they doing? What are they using to do this?
- C Think and answer the questions.
  - 1 What kind of art do you make at school?
  - 2 How is art class different from science class?
- Fill out the Big Question Chart.



What do you know about art? What do you want to know?



## **Get Ready**

### Words

A Listen and read the words. Listen again and say the words. 🕥 2-02













sketch

pastels

canvas

paintbrushes

shapes

string











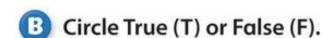
three-dimensional

prodigy

street painter

carpenter

sculptor



- 1 You can tie things together with string.
- 1
- 2 Circles, squares, and triangles are shapes.
- r F
- 3 A prodigy is usually an adult person.
- r F
- 4 A photograph is three-dimensional.
- F
- 5 You need paint to make a sketch.
- . .

6 Carpenters work with clay.

- T F
- 7 Street painters work outdoors.

- .
- 8 Paintbrushes only come in one size.
- 1



- 1 This person creates something new.
  - street painter
- shapes
- carpenter
- sculptor

- 2 Artists use these things to make art.
  - pastels
- paintbrushes
- sketches
- canvases

### **Before You Read**

Think What art have you seen? How did you feel about it?

### Learn

**Text Features** 

Text features can help you understand the information in a reading. These features include:

Title	what the reading is about
Heading	what a part of the reading is about
Visual	a photograph or an illustration
Caption	words under or near a visual

Label the text features of the reading below using the following words. You will use one word twice.

> caption title visual heading

The Beauty of Recycled Art 1

A Creative New Art Form 2

Recycled art is very popular. Artists make recycled art from trash. They use old lamps, bicycles, and even chewing gum!

An Earth-Friendly Art Form 3



Recycled art is creative and friendly to the Earth. Artists recycle old and unwanted objects. This uses less energy and fewer materials. It teaches people to be less wasteful.

This is a table that uses recycled materials.

Words in Context Scan the reading on pages 70–71 and circle these words. As you read, guess what the words mean.

complex washable combines fascination

Look at the text features in the article. What do you now know before you start reading?

### PREVIEW

## Art Through New Eyes

In this magazine article, you will read about four exciting modern artists and the art they create. A magazine article gives information and often uses text features. As you read, use the text features to help you understand more about the article.

Art







# Read Art Through New Eyes

### Think

How does the title help you understand the reading?

Can anyone make art? Can artists make art from anything? Let's look at art through the eyes of some very inspiring modern artists to answer these questions.

### The Painting Prodigy

When he was five, Kieron Williamson drew sketches of boats he saw on a family trip to Cornwall, England. This was the start of Kieron's love of drawing. The more he drew, the more complex his drawings



Although he is busy with school and football, Kieron draws or paints daily.



became. Kieron wanted to learn more about art, so he spent time with local artists in his hometown of Norfolk, England. They helped him build his skills in drawing and painting. He now creates pictures using oil paints, pastels, and watercolors. Today, nine-year-old Kieron is considered to be a child prodigy. Around the world, people admire his beautiful artwork, including many famous people. The young artist says, "I like creating art because it's fun and inspiring. It makes me think of places I can't see."

### When people step onto one of Mueller's paintings, like The Crevasse, they become part of it.

### **Art Under Your Feet**

The next time you walk outside, you may discover that you are part of Edgar Mueller's art. Edgar is an expert street painter from Germany. "I always have the wish to create something new," he says. You can find his paintings all around the world at festivals and on public walkways. His three-dimensional paintings include waterfalls, canyons, and more. Mueller uses washable paint or chalk, a variety of paintbrushes, and string.

His work helps people to look at a place differently.



"I absolutely fell in love with painting on the street," Mueller says.

### Think-

How does the heading above help you understand the paragraph?

### Stick Sculptures

Patrick Dougherty is a unique sculptor. He combines his love of nature with his skills as a carpenter. His goal is "to build a great sculpture that excites people's imaginations." You can see his large-scale sculptures in many places around the world.

Dougherty's sculptures are made of young trees, or saplings. The saplings are flexible, so he can bend them into rounded shapes. He keeps them together by weaving the saplings around each other. Building the sculpture is a big job, so the local community helps Dougherty with his project. Many volunteers help to collect the saplings, mark out the space, and build the sculpture. The sculptures are temporary. They will decompose, or break down, over time.





"Sticks are something we all have in common," Dougherty says.

### **Painting the Universe**

When you look at the artwork of Korean artist Sung Hee Cho up close, you see small pieces of brightly colored paper on a large canvas. It may seem disorderly with colors scattered around. However, as you step back, you can imagine the stars, galaxies, and the beauty of the universe. Cho combines *hanji*, traditional Korean paper, with paint. First, she paints the canvas. Then, she cuts out pieces of *hanji* into small shapes, such as flower petals. Next, she dyes and paints the small pieces of paper in a

different color. Then she glues thousands of them onto the canvas in layers to capture the glimmer of light. She repeats

this process over and over again. She wants to create artwork that is as magical as stars.

### Think

How do the photos and captions in this section help you to understand Sung Hee Cho's art?



Cho wants to share her fascination with the universe through her artwork.

By carefully observing the stars, Cho created The Star in the Cosmos.

Inspiring artists come from every part of the world. Each one inspires us in a different way. By creating and sharing their art, they help us appreciate and understand the world around us.

# **Understand**

## Comprehension



Think Which artist would you like to talk to? What questions would you ask him or her?



- Match a heading to an artist. Then match an artist to a sentence.
  - 1 The Painting Prodigy
- a Edgar Mueller
- e People can walk on this artist's paintings.

- 2 Art Under Your Feet
- b Sung Hee Cho
- This artist is interested in the universe.

- 3 Stick Sculptures
- c Kieron Williamson
- **q** This artist makes art from natural things.

- 4 Painting the Universe
- d Patrick Dougherty

- h This artist is very young, but he's a skilled painter.

- B Answer the questions.
  - 1 Who helped Kieron Williamson build his skills?
  - 2 How do people become a part of an Edgar Mueller painting?
  - **3** Who helps Patrick Dougherty build his sculptures?
  - 4 What is the Korean name for the paper Sung Hee Cho uses?
- Words in Context Complete each sentence with a word from the box.

complex washable combines fascination

- 1 The artist \_\_\_\_\_ blue and yellow paint to make green paint.
- 2 Many artists have a \_\_\_\_\_ with nature.
- 3 Jackie spilled paint on her sweater, but the paint is \_\_\_\_\_\_.
- 4 Sara's sketch is more \_\_\_\_\_ than Ronald's.



## Grammar in Use

D Listen and sing along. Be an Artist 🕥 2-04

Anyone can be an artist And make art from anything. Let's make something beautiful With just a ball of string!

Glue the string in a circle. Add a head and a tail. Paint it yellow, blue, and green. Now it's a beautiful snail!



- Read the sentences. Which one names a person? Which one doesn't?
  - a Amy can be an artist. **b** Anyone can be an artist.

## Learn Grammar Indefinite Pronouns

Use indefinite pronouns to talk about unnamed people or things.

Can anyone make art? (any of the people)

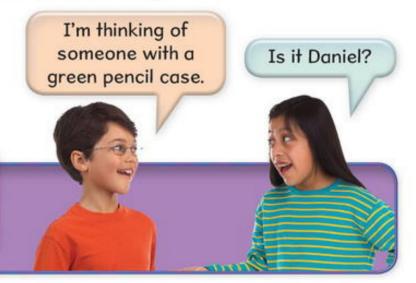
I want to paint something in this room. (one of the things)

Everyone worked on the sculpture. (all of the people)

## Circle the correct indefinite pronoun in each sentence.

- There is something / anything I like about this sculpture.
- Did you meet everything / anyone at the art gallery?
- The art teacher helps **everyone** / **someone** with their drawings.
- Make a chart like the one below. Write down the names of people and items in your classroom. Ask your partner to guess what you wrote.

People	Items
Daniel	the teacher's desk



# Communicate

## Listening

Think What is your favorite type of art to create? Why do you create it?

- - 1 Stella a Paraguay •
- e photography

- 2 Juan
- **b** Tanzania •
- f Sami jewelry

- 3 Neema •
- c Croatia
- g computer art

- 4 Marko
- **d** Sweden
- h junk art



B Listen again. Write the correct artist beside each reason. 🔕 2-06

### **Reason for Creating Art**

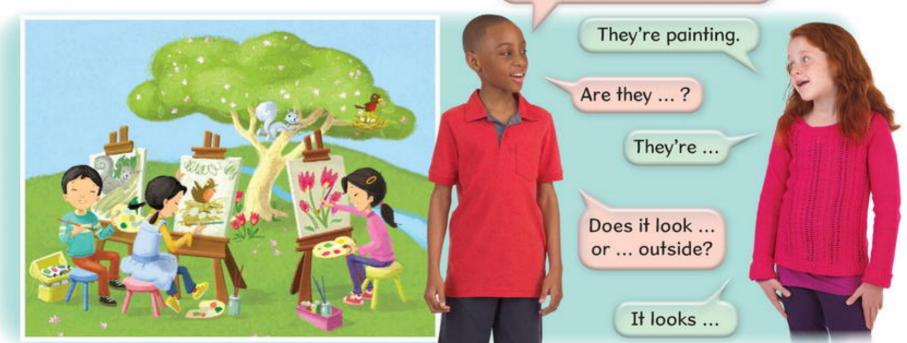
Artist

- 1 I capture the magic of things. It's like a treasure hunt.
- 2 We relax together and continue our family tradition.
- **3** I want to make a difference, and I like being creative.
- 4 I challenge myself and let my imagination soar.

## Speaking 1 2-07

Ask and answer questions about the picture with your partner. Use short answers.

What are the children doing?



## **Word Study**



## Learn Words with the Prefix dis-

The prefix dis-means not or the opposite of.

The artist's studio was messy and disorganized.



Listen and read the words. Circle the prefixes. Then write a sentence for each word in your notebook. (1) 2-08

dissatisfied disorganized dishonest disprove disability distrust



## **Writing Study**



## **Learn** Compound Predicate

A predicate is the action of a sentence. A **compound predicate** is two or more actions that a subject does. Join the actions with a conjunction, such as *and*.

Picasso painted many masterpieces. He created many sculptures.

predicate

predicate

Picasso painted many masterpieces and created many sculptures.

compound predicate

## Read each pair of sentences. Then combine them into one sentence.

- 1 We put away the paint. We washed our hands.
- 2 The artist talked to the students. She showed them her paintings.
- 3 The artist found simple materials. He made sculptures with them.





Now practice writing in the Workbook. page 66

Vocabulary: Words with the Prefix dis- • Writing: Compound Predicate Unit 7





We make art because it's fun.

Art helps us to look at things in a new way.

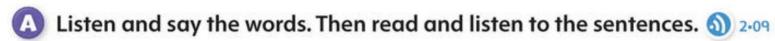


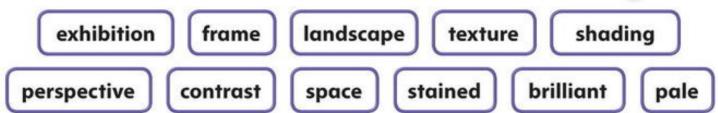
75



# **Get Ready**

## Words





- 1 There is an exhibition of student art at school today.
- 2 Kara put a wooden frame around her painting.
- 3 The landscape showed tall mountains and a river.
- 4 David uses paper and cloth to give his paintings texture.
- 5 The shading in this sketch makes the animal look real.
- 6 The drawing's **perspective** made the streets look very long.
- 7 A black and white painting has a lot of contrast.
- 8 The small objects in the painting had empty space between them.
- 9 Paula's apron was stained with many colors of paint.
- 10 The artist painted the dragonfly with brilliant green wings.
- 11 The mountains looked pale and gray under the cloudy sky.

## Match each item or group of items to the correct word.

- 1 the sunset
  a stained
  b pale
  c brilliant
  d exhibition
  e frame
  f landscape
- Read each quote. Then write what the quote is about.
  - 1 "The surface of the painting is thick and bumpy." This is about <u>texture</u>.
  - 2 "The yellow looks brighter next to the purple." This is about \_\_\_\_\_\_.
  - 3 "The bird in the painting is alone in the vast sky." This is about \_\_\_\_\_\_.
  - 4 "The light and dark lines make the apple look real." This is about \_\_\_\_\_\_.
  - 5 "The mountains look far away in the painting." This is about \_\_\_\_\_\_.

## **Before You Read**



Think What do you want to be when you are older? Why? Do you think you will be able to be this? Why or why not?

## **Learn** Value Judgments

A value judgment is an opinion about a character and what he or she does. To make a value judgment as you read, ask yourself, What kind of person is this character? Did he or she do the right thing? Did he or she make the right decision?

## Read the paragraphs. Choose a value judgment.

Kelly was out of paint. She looked around the empty art studio. All the other artists were gone. Kelly really wanted to finish her painting. She quickly opened Steve's desk, grabbed some paint, and took it back to her canvas.

- a Kelly did the right thing. She didn't need to ask Steve to borrow his paint.
- **b** Kelly didn't do the right thing. She needed to ask Steve to use his paint.

2 George had to get to art class on time. He ran through the park and came to a traffic light. A little boy was waiting there with his mother. The light was red, but there were no cars coming. George waited until the light turned green, and he was late for class.

- a George didn't do the right thing. He shouldn't be late for class.
- **b** George did the right thing. The little boy was watching him.
- Words in Context Scan the story on pages 78–79 and circle these words. As you read, guess what the words mean.

ignore worries famous speechless

Why do people go to art galleries? Tell your partner the reasons you think of.

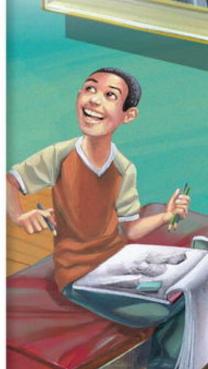
#### PREVIEW

# Sketches in a Gallery

In this realistic fiction story, a boy who loves art meets someone special in a gallery. A realistic fiction story has characters, problems, and settings that seem real. As you read, stop and make value judgments.



Elizabeth Cody Kimmel is the author of over 30 children's books. She lives in New York City.





# Sketches

Each day after school when other boys play soccer, practice for the school play, or ride bikes, Theo goes to the art museum. Everyone he knows thinks this is strange, even his own family.

"Don't you want to play a sport or be in the play with all of your friends? I will sign you up for something," his mother offers.

Theo does not tell his mother that he has no friends at school. His friends are all here in the museum. They are on every wall, in brilliant colors and oil paints and pastels. The paintings are Theo's friends. Today, Theo rushes to get to the museum after school because he will be meeting some new friends. An exhibition is opening—The Mountain Landscapes of Zayan Khan.

Inside the brightly lit gallery, there are ten new paintings, each in a wooden frame. Each painting features a different mountain. Some of the mountains are covered in snow, while others are green or rocky. Theo sits on a bench and looks at one painting for a very long time. He likes the contrast of the heavy black lines of the mountain and the pale blue sky. Theo takes out his notebook and his pencil and begins to make a sketch.

People come and go from the small gallery, but Theo sits for a long time, making sketch after sketch. After a while, there is only one other person left in the gallery. He is sitting on a bench on the other side of the little room.

Theo decides to ignore the man. I don't want to talk to him, Theo thinks.

The man stands and walks toward the exit, but he stops next to Theo.

Theo's sketch is of a mountain from very far away. The mountain is small and surrounded by space. in a Gallery

"That's an interesting perspective," the man comments.

Theo is shocked. He never shows his artwork to anyone because he worries that it isn't any good.

"Shall I show you some more sketches?" he asks.

The man smiles and nods. Theo hands the man his notebook and sits quietly as the man turns the pages.

"I like the way you create texture with shading," the man remarks. "I like to do that, too."

Theo notices the man's hands and fingers are stained with paint. In his jacket pocket, there are several colored pencils and a paintbrush. He is holding an old, tattered sketchbook with his name written on the front.

"You are Zayan Kahn!" Theo exclaims, astounded that he is talking to the famous artist. Zayan Kahn looks so much younger than Theo imagined, and he is so kind and friendly.

"That's right," Zayan Kahn replies.

"I'm Theo. One day, I want to be an artist like you," Theo tells him.

Zayan Kahn shakes his head. "No, don't say that," he says.

Theo looks down. "Oh," he says.

Zayan Kahn points to Theo's notebook.

"You are already an artist, Theo," he says.

Theo is speechless with happiness. He does not say anything else, and neither does Zayan Kahn. They just sit quietly in the room, sketching, two artists surrounded by friends.

**Think** 

What value judgments can you make about Theo and Zayan Khan?

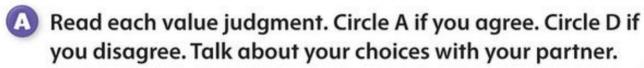


# Understand

## Comprehension



Think How do you feel about Theo? Are you similar to him? Why or why not? Tell your partner two opinions you have about Theo.



- Theo should try to make more friends at school.
- 2 Theo shouldn't go to the art museum so often.
- 3 It is good that Theo sketches other people's art. A D
- 4 Theo should ignore the man in the gallery.
- 5 Zayan Khan is a kind man.
- 6 Theo and Zayan Khan are similar.



## B Answer the questions.

- 1 What would Theo's mother like him to do?
- 2 How would you describe Zayan Khan's landscapes?
- 3 Why doesn't Theo usually show his sketches to anyone?
- 4 Why are Theo and Zayan Khan silent at the end of the story?

## Words in Context Match each word to a picture.

- 1 ignore
- 2 famous
- 3 worries

A

D

D

D

4 speechless









## Grammar in Use

D Listen and read along. 🔕 2-11



- Read each sentence. What is the speaker offering in each sentence?
  - a I'll bring you ice cream. b Shall I frame it?
- E Learn Grammar Offers with Shall and Will

Use **shall** to make an offer with a question.

"Shall I show you some more sketches?" he asks.

Use will to make an offer with a statement.

"I will sign you up for something," his mother offers.

Match each situation on the left with an offer on the right. Write the correct letter.

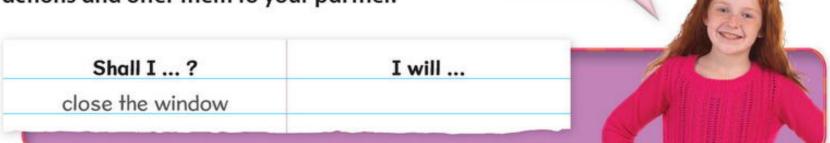
- 1 A woman has a heavy bag. \_\_\_\_
- 2 A man is very thirsty. \_\_\_\_
- **3** A child's kite is in a tree. \_\_\_\_

- a "I'll get it down."
- **b** "I'll carry that for you."
- c "Shall I bring you a cold drink?"

You look cold. Shall

I close the window?

Make a chart like the one below. Write actions and offer them to your partner.



# Communicate

## Listening

Think In nature, where can you see many colors mixed together?

	Outdoors	Indoors	More detail	Less detail	Side by side colors	Mixed colors
Impressionist Paintings						
Traditional Paintings						

- B Listen again. Answer the questions. 1 2-13
  - 1 Where is the Marmottan Monet Museum located?
  - 2 How many works of art by Claude Monet does the museum have?
  - 3 When was Impression: Sunrise painted?



## Speaking 1 2-14

C Learn Expressing a Desire or Wish

The verb wish can be used to talk about something you want to do, be, or have, but cannot at this time.

I wish I could paint like Claude Monet.

I wish I were a famous painter.

I wish I had more time to paint.

Do you have a wish? Talk to your partner about it.



## **Word Study**



## Learn Synonyms

Remember, synonyms are words that have similar meanings.

They are on every wall in brilliant colors.

They are on every wall in bright colors.



Listen and read the words. Then match the sentences with synonyms. 12-15

beautiful gifted drab pretty talented dreary



- 1 Manuela thought the painting was beautiful.
- a Everyone agreed that it was very dreary.
- **2** The sky outside looked *drab* and gray.

- b Many of her teachers felt that she was very gifted.
- 3 Damla was a talented art student.
- C Her son thought it was pretty, too.

## **Writing Study**



## Learn The Articles A, An, and The

Use a or an before a noun if the noun is one of many.

Use the before a noun if the noun names one special, or specific, thing.

Theo went to see an exhibition.

(There are many exhibitions. Theo went to see one of them.)

Theo went to see the exhibition of Zayan Khan's landscapes.

(This exhibition is special because it is Zayan Khan's exhibition.)

## Read the sentences. Circle the correct article.

- 1 A / The Mona Lisa is Leonardo da Vinci's most famous work of art.
- 2 I saw a / the sculpture at the Chinese sculpture exhibition yesterday.
- 3 An / The art of Vincent van Gogh is different from any other art I've seen.
- 4 I went to an / the art gallery in Paris when I was there.



Now practice writing in the Workbook. page 74



## Writing

Read this opinion essay about the writer's favorite work of art.

Seurat could trick the eye to see a third color.

#### Seurat's Beautiful Dots of Paint Title -

Topic and opinion The French artist Georges Seurat created many paintings in his short lifetime. One of my favorites is A Sunday Afternoon on the Island of La Grande Jatte. I like this painting for three reasons.

First of all, Seurat created this painting in a new style called "pointillism," which uses small dots of paint. By putting two colors next to each other,

Reasons and details

Next, this painting is full of details about French life in the 1880s. There are several women wearing elegant clothes and carrying parasols. One woman is even walking a monkey. Many of the men are dressed up with jackets and hats. I can see dogs running around and children playing. There are boats on the water. It looks like a perfect summer day.

Finally, this painting makes me feel very calm. Even though a park like this could be a noisy place, Seurat makes it feel peaceful. He paints people sitting quietly in the shade. There is a girl sniffing a bouquet of flowers. Throughout the painting, people are relaxing on the cool, green grass and enjoying a beautiful day.

Summary and final thought Seurat needed two years to finish this beautiful painting. I'm grateful that he completed it. It is a very special painting because of Seurat's use of pointillism, his attention to detail, and the calm feeling he created. It is easy to see why so many people admire this painting. I hope that you can see its beauty, too.

## B Answer the questions.

- 1 How does Seurat's pointillism style trick the eye?
- What unusual animal can the writer see in this painting?
- 3 How does this painting make the writer feel calm?

#### Learn **Opinion Essay**

- In the introduction paragraph, present the topic and write your opinion.
- In the three body paragraphs, write the reasons why you have your opinion. Be sure to include details that support your reasons.
- In the conclusion paragraph, give a brief summary of your reasons. Then write an interesting final thought.



Now go to the Workbook to plan and write your own opinion essay. page 75

## Project: Acting in a Play

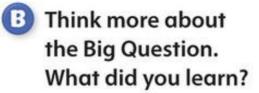
- Create a short play about artists working in a studio. Then act it out.
  - In your group, create a play about artists in a studio.
  - Think about different types of art, what artists do, and what kind of artist you want to be in the play. Give yourself a unique name and choose what tools you will need.
  - Create a drawing of a piece of art. It can be any type of art.
- Think about what artists would say to each other in a studio. Talk about your ideas with your group. Write down words that you want to remember. Then practice the play with your group.
- Perform the play for your class.
   Remember to speak clearly, show the artwork you created, and act like you are a real artist.





Watch the video. |





Complete the Big Question Chart. What did you learn about art?



In units 9 and 10 you will:

**WATCH** a video about cities in different places. **LEARN** about the many features of a city.

READ about Jakarta and a very young mayor.



WRITE a persuasive essay.

CREATE a travel brochure.





- Watch the video.
- Look at the picture and talk about it.
  - 1 What do you see in the picture?
  - 2 How is the city similar to and different from where you live?
- Think and answer the questions.
  - 1 What can you do in a city?
  - 2 How are cities different than places that are not cities?
- Fill out the **Big Question Chart**.



What do you know about cities? What do you want to know?



# **Get Ready**

## Words

Listen and read the words. Listen again and say the words. <a>3</a>) 2-16



exotic fruits

Write the following words in the correct spaces. Talk to your partner about your answers.

batik

rickshaw batik shrimp souvenirs tuna antiques exotic fruits

Eat in a City	Ride in a City	Buy in a City

Circle True (T) or False (F).

souvenirs

- 1 You can see many ships at a port.
- 2 Cities usually have only one kind of architecture.
- 3 Canals are natural and not man-made.
- 4 You can often buy food from a street vendor.
- 5 Antiques were made very recently.



shrimp

tuna

F

E

F

F

T

## **Before You Read**

Think What cities around the world do you know about? What do you know about these cities?

Learn Paraphrasing You can paraphrase what you read by writing it in your own words. This can help you remember main ideas or important facts in a reading. Shanghai's population is the You read largest of any city in China. Shanghai has more people than You paraphrase any other Chinese city.

Match each sentence with its paraphrased sentence.

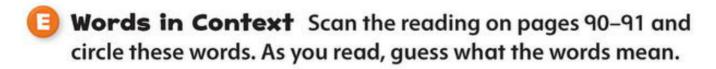
#### Sentence

## **Paraphrased Sentence**

- 1 For centuries, Shanghai was a major trading town.
- a Many people travel to Shanghai to see the city.

- 2 Shanghai is a popular destination for tourists.
- **b** Many ships come into and leave Shanghai.
- **3** Shanghai is one of the busiest port cities in the world.

People bought and sold goods in Shanghai for hundreds of years.



countless congested haggle banned

Look at the pictures on the following page. What looks interesting to you? What would you like to see in Jakarta?

### PREVIEW

## lakarta: A Big-City Snapshot

In this travel article, you will tour Jakarta, one of Asia's largest cities. Travel articles describe interesting places and things to do around the world. As you read, paraphrase sentences that contain important facts or information.

## Social Studies: Society

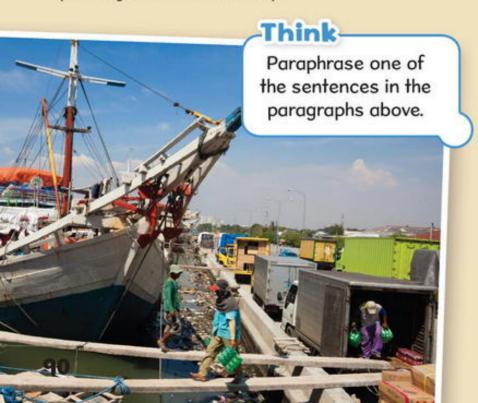
**Author Patrick** Daley enjoys sharing his knowledge of the world with others. He has written books about cities and places in Cuba, Indonesia, Ireland, Kenya, Nigeria, and Russia.



Unit 9



Jakarta is a busy port city on the Java Sea. It is filled with more than 10 million people. That's more people than in New York City. Its area is also huge—250 square miles (646 square kilometers).

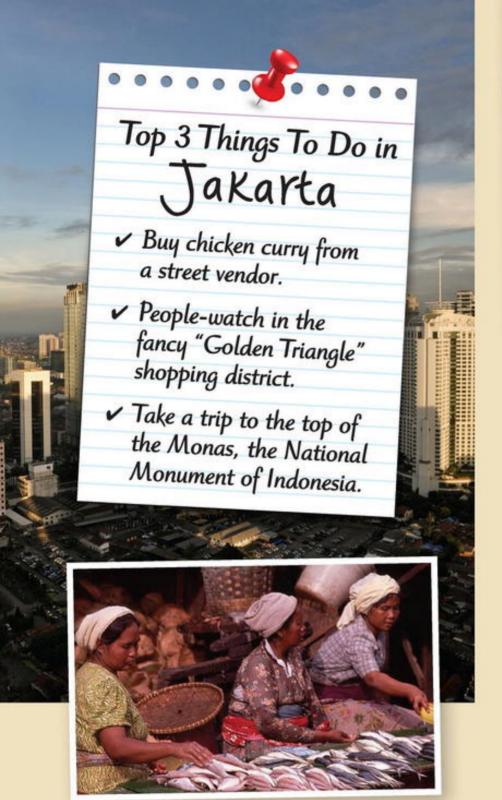


This Southeast Asian city stretches high into the sky. Countless skyscrapers give the city a futuristic feel. When you first arrive, it feels like you just stepped off a spaceship.

Jakarta is one of the most congested cities in the world. You might even say they invented the traffic jam. Jakarta is also highly polluted. With so many trains, cars, and motorcycles, it is no wonder.

## A VISIT TO THE OLD CITY

Parts of the original Dutch city can still be found in the area called Kota. Kota is located on the north side of the city. It is a great place to wander around. It has old canals and classical architecture.



The port of Sunda Kelapa is near Kota. Thousands of boats dock here every year. They transport things like coffee, tuna, and exotic fruits.

After watching the ships come and go, check out the Pasar Ikan fish market. It is a great place to inspect strange and exotic fish. It is also a great place to watch people as they shop for dinner and haggle over the price of shrimp.

Think

Paraphrase one of the sentences in the paragraphs above.



#### MODERN CULTURE

Do you want to learn more about the culture of the Indonesian people? Then check out the National Museum. Located in the heart of town, the National Museum is packed with art, historical items, and great displays of Indonesian culture.

You should also head to the Jalan Surabaya antiques market. This is a great spot to pick up souvenirs. You'll find such things as handmade drums, batik-dyed clothing, and jewelry.

#### GETTING AROUND

Indonesia is famous for its rickshaws. These were small, one-passenger carriages that were pulled by a bicycle.

Now, they are banned in Jakarta. They were too slow and held up traffic.



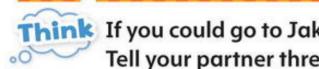
They have been replaced by the bajaj, which is a motorized rickshaw. A bajaj is a big seat on wheels pulled around by a moped, a motorized bicycle. Hire a bajaj to take you around the city.

Think

Paraphrase the final paragraph.

## Understand

## Comprehension



Think If you could go to Jakarta for a week, what would you do? Tell your partner three things you would do and your reasons.

- Write a paraphrased sentence for each sentence below.
  - 1 Indonesia's largest city after Jakarta is Surabaya, with a population of 3 million. Surabaya has
  - 2 Tourists who visit a city often buy souvenirs for their friends and family.
  - 3 Cities offer a variety of restaurants to choose from when you are hungry.
- Answer the questions.
  - 1 Which city has more people, Jakarta or New York City?
  - 2 What makes Jakarta feel like a city from the future?
  - **3** How is Kota different from other parts of Jakarta?
  - 4 What can you do at the Pasar Ikan fish market?
  - 5 Why is a bajaj better than a rickshaw?



- 1 countless
- 2 congested
- 3 haggle
- banned











## Grammar in Use

D Listen and sing along. The Big City 🕥 2-18

I live in a beautiful busy city.

There is always something fun to do.

There are street vendors selling exotic fruits

And antiques and souvenirs, too.

Nobody's ever bored in the city,

With so many places to go and to see.

The outdoor market, the port, the museum,

Nothing can beat the city for me!



- Read the sentences. Circle the words that begin with no-.
  - a Nobody's ever bored in the city. b Nothing can beat the city for me.
- E Learn Grammar Negative Indefinite Pronouns

Remember, indefinite pronouns refer to people or objects that we don't name or know. **Negative indefinite pronouns** begin with *no-*.

Negative Indefinite Pronoun	Meaning	Example
nothing	not anything	Do you have nothing to do?
no one		No one could see everything.
nobody	no person	Nobody is in the museum.

Circle the correct negative indefinite pronoun in each sentence.

- 1 Nobody / Nothing can enter the city zoo after 5:00 p.m.
- 2 There was no one / nothing to do at home.
- 3 Nobody / Nothing sat next to me on the bus.

There is nothing in my pocket.

Make a chart like this one. Then talk to your partner about it.

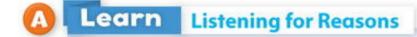
There is nothing	There is nobody
in my pocket	
, poone	



# Communicate

## Listening

Think Is there a body of water in or near your area? What is it? Who uses it?



As you hear about things that happened in history, listen for the reasons why those things happened.

Listen. Match a city to its body of water and to a reason the city grew near this water. 1 2-19



## City

## **Body of Water**

#### Reason

- 1 Paris
- a The Bosphorus
- **d** It helped protect people.

- 2 Mexico City
- **b** The River Seine
- e It provided transportation.

- 3 Istanbul
- Lake Texcoco
- **f** It provided food and water.
- Listen again. Answer the questions. 🕥 2-20
  - 1 What does the word "Parisii" mean?
  - 2 When did Mexico City begin as an Aztec city? \_\_\_\_\_
  - 3 Istanbul was the capital city of how many empires? \_\_\_\_\_

## Speaking 1 2-21



Why did your city or town grow where it is today? Think of two possible reasons. Share the reasons with your partner.



## **Word Study**



## Learn Words with Soft c and Hard c

The letter c at the beginning of a word can be hard or soft.

A city has fascinating things to see.

soft c

It has old canals and beautiful architecture.

hard c



Listen and read the words. Circle the words that begin with a soft c. Underline the words that begin with a hard c. 1 2-22

commerce corner cinema cement castle ceiling



## **Writing Study**



## Learn

## Capitalize the Names of Bodies of Water

Most large bodies of water have names. They begin with capital letters.

River Seine Lake Texcoco Pacific Ocean

General words for water, such as river, lake, and ocean, are not capitalized.

Read the paragraph. Capitalize the names of the bodies of water.

D

The danube river is an important river. It flows through many European cities. It's also a trade route. Ships can travel from the danube to the black sea, and then to the sea of marmara. Ships that need to reach an ocean can continue to the indian ocean.



le Now practice writing in the Workbook. page 85

Vocabulary: Words with Soft c and Hard c • Writing: Capitalize the Names of Bodies of Water Unit 9





A city is often near water.

> It's an exciting place where many people live and work together.



95



# **Get Ready**

## Words

Listen and say the words. Then read and listen to the sentences. 1 2-23

citizens

volunteers

mayor

assistant

city council

city hall

president

garbage collectors

equipment

news conference

playground

- The city's **citizens** are happy with the new library.
- Many **volunteers** cleaned up the town after the storm.
- 3 The mayor spoke to the people of the city.
- 4 The mayor's **assistant** made phone calls for the mayor.
- 5 The city council discussed the city's schools.
- 6 At city hall, people make decisions about the city.
- The **president** of our class is a good leader.
- The **garbage collectors** ride in a huge truck.
- Workers use heavy **equipment** to fix the city's streets.
- The reporters asked questions at the **news conference**.
- Children go to the **playground** after school.
- Circle the correct answer.
  - 1 This person is the head of a city. assistant mayor
  - 2 This person gets paid to do work. garbage collector volunteer
  - **3** You can have fun with your friends here. city hall playground
  - 4 You can learn a lot from watching this. news conference equipment
  - 5 This group of people makes decisions about a city. city council citizens



Is it easy to be a president? Share your ideas with your partner.

## **Before You Read**

Think What job would you like to have for one day? Why?

#### Learn **Understanding Characters**

The main character is the person a story is about. The people around the main character are the minor characters. As you read about a character, ask yourself:

- Is this a main character or a minor character?
- What strengths and weaknesses does he or she have?
- What does this character do and why?

## Read the short story. Answer the questions.

Every day after school, Antonio and his friend Carlos walked through the park. One day, Antonio lost his cell phone in the park. He offered to help his parents clean the house for one month to pay for a new phone. After a very busy month, Antonio's parents bought him a new phone.

- 1 Who is the main character?
- 2 Who are the minor characters? \_\_\_\_\_
- What strengths and weaknesses does the main character have?
- 4 Why does the main character work so hard at home?
- Words in Context Scan the story on pages 98-99 and circle these words. As you read, guess what they mean.

contest ribbon speech members

If you were the mayor, what would you do for the citizens of your city? Why would you do this?

### PREVIEW

## Mayor for a Day

In this humorous fiction story, a girl named Marcy discovers what it is like to be the mayor of her city. Humorous fiction stories have characters and events that are funny. As you read, ask yourself about the main character and minor characters in the story. Try to understand what they are like.





in Glenview. Many people could get jobs there."

Who are three minor characters?

"Let's go," said Marcy. O

In the mayor's office, Marcy spent one hour talking to Hilda Hanson, the president of Terrific Toys. "I promise you that the people of Glenview will build interesting and creative toys," Marcy said.

"For such a young mayor, you impress me!" said Hilda. "We'll start building our factory here tomorrow."

As Hilda drove away, Mr. Clark ran up to Marcy.

"The garbage collectors are unhappy!" he exclaimed. "There is too much garbage to pick up. They want more workers. What will we do?"

Marcy realized that she wasn't nervous anymore. She thought for a moment and then snapped her fingers. "We'll start a recycling program," she said. "That will reduce garbage. They won't need more workers."

"Great idea!" said Mr. Clark.

After lunch, Mr. Clark ran into Marcy's office.

"You have a city council meeting in five minutes!" he shouted.

At the meeting, the head of the city council looked worried. "The playground equipment at the city park needs fresh paint," she said. "The park needs new flowers. But we have no money for extra workers."

"Do we have money for ice cream?" Marcy asked. The city council members looked confused.

"I will have a news conference today," Marcy explained. "Next Saturday will be our first Glenview Volunteer Day. People can volunteer at the park and enjoy free ice cream. The citizens of our city will paint and plant and get the job done!"

"Wonderful idea, Mayor Marcy!" the members cheered.

At 5:30, Mr. Clark thanked Marcy for her hard work. They walked to the front of City Hall, where Marcy's mother was waiting. Marcy got in the car and stretched her legs.

"Did you have fun, Marcy?" asked her mother. "I did," said Marcy.

"Who knows?" said her mother.

"Maybe you'll be a real mayor someday."

Marcy smiled. "Maybe I will," she said.



Think

What do you know about the main and minor characters?

# Understand

## Comprehension



Think What did you like about "Mayor for a Day"? Tell your partner three things you liked about the story. Were there any parts that you didn't like?





Fill in the chart.

"Mayor for a Day" Main Cl	aracter:
What problems does the character have?	
What is the character's personality like?	
How does the character act in the story?	
What strengths does the character have?	

- Answer the questions.
  - 1 Why do you think Mayor Wilson wanted to go to the beach?
  - 2 Why was Mr. Clark always running?
  - 3 What did the garbage collectors want? Why?
  - 4 Why did the head of the city council look worried?
  - 5 Do you think Marcy's mother knew what Marcy did all day? Why do you think that way?



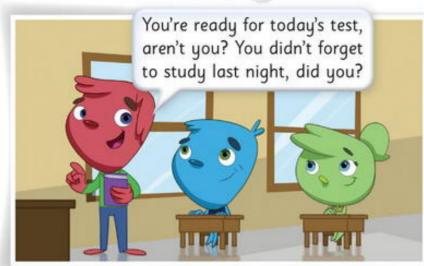
## Words in Context Match each clue to a word. Write the correct letter.

- 1 If this is too long, listeners may get bored. \_\_\_\_ a ribbon
- 2 This is easy to lose and difficult to win. \_\_\_\_ **b** members
- 3 These people all have something in common. \_\_\_\_ **c** speech
- 4 This is soft enough to cut with a pair of scissors. \_\_\_\_ **d** contest



## Grammar in Use

Listen and read along. 1 2-25





- Read the sentences. What is the teacher asking about in each one?
  - a You're ready for the test, aren't you?
- **b** You studied, didn't you?
- Learn Grammar Tag Questions

In a tag question, a statement is turned into a question by adding a tag at the end. A tag question always has a yes or no answer. Tag questions are often used to say things that we think are true, but that we don't know for sure.

You'll work hard, won't you?

Marcy wasn't nervous, was she?

statement

tag

statement

tag

## Match each statement on the left to a tag on the right to create a tag question.

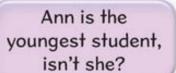
- Mayors are hard workers.
- a is he?
- 2 Mr. Clark isn't the mayor,

- b won't she?
- 3 Hilda Hanson will build a factory,
- c aren't they?

Make a list like the one below. Then ask your partner tag questions.

## Things I think are true

Ann is the youngest student.



# Communicate

## Listening

Think What do cities have that small towns don't have?

- 🔼 Listen. Write where each child lives. 🕥 2-26
  - 1 Toshi \_\_\_\_\_
  - **2** Gaby \_\_\_\_\_
  - **3** Alina \_\_\_\_\_
  - 4 Omari \_\_\_\_\_



- Listen again. Match each person to a statement. Then circle F for fact or O for opinion. (1) 2-27
  - 1 Toshi a You can eat African food in São Paulo.
  - 2 Gaby b Pandas are the most beautiful bears.
  - 3 Alina c Squash is the most exciting sport.
  - 4 Omari d Moscow has almost 100 parks.

## Speaking 1 2-28



## **Word Study**



Learn Phrasal Verbs with Take

Some phrasal verbs begin with the verb take. The past tense of take is took.



Mayor Wilson took off his glasses. He takes off his glasses often.

Listen and read the words. Then complete the sentences. Change the verb ending and tense if necessary. 1 2-29

take down take in take after take over take up take apart

-			-	
ы	9	€	80	
7	۸	٧	_	ď.
-	8	d		

- 1 The girl will \_\_\_\_\_ the mayor's job for one day.
- 2 The reading was too long. James couldn't \_\_\_\_\_ all the information.
- 3 Samantha \_\_\_\_\_ the clock, but she couldn't put it back together.
- 4 Yoon's grandmother \_\_\_\_\_ knitting last year.
- 5 On January 1, Alessandro \_\_\_\_\_\_ his calendar and put up a new one.
- 6 Cheryl \_\_\_\_\_ her mother in many ways.

## **Writing Study**



Learn Coordinating Conjunctions: And, But, Or

Use and, but, and or to connect words, phrases, and sentences.

Connect words	Shannon and Brooke are sisters and friends.
Connect phrases	I play chess with my mom but not with my dad.
Connect sentences	I can visit you, or you can visit me.

## Read the sentences. Circle the correct coordinating conjunction.

- 1 I hope to visit Zurich and / but / or Geneva. I want to see both cities.
- 2 Many cities are much too noisy, and / but / or they are also exciting.
- 3 Please write a report and / but / or give a speech about cities. Don't do both.
- 4 I want to go to the city's new library, and / but / or I'm too tired.



**te** Now practice writing in the **Workbook**. page 93



## Writing

Read this persuasive essay about the writer's city.

-My City: A Great Place to Live

### Introduction

Do you live in the countryside? Maybe you live in a small town. If you do, I want to invite you to live in my city. It's a great place to live for many reasons.



You may think that a city has too many people. However, people make a city exciting. For example, we have a university right in the center of our city. There are students and teachers everywhere! They go to coffee shops and talk about many interesting things.

## Body

Some people say that a city has too many cars and trucks. However, cities also have very good public transportation. My city has taxis, buses, subways, and trains. I go to school every day by subway. It's fast and easy to use.

It is true that cities are not as quiet as towns. However, there are many quiet places in my city. You can rest and enjoy nature in one of our quiet parks. There are many restaurants that have soft music, great service, and delicious food. My city also has a huge library where many people go to read, study, and relax. It's very quiet there.

## Conclusion

Although cities may have some problems, they also have big rewards. My city is exciting, it has great transportation options, and there are nice quiet areas. Please come and live in my city!

## Answer the questions.

- 1 Why does the writer include the university in the essay?
- What are some examples of public transportation?
- 3 What are some quiet places in a city?

#### Learn Persuasive Essay

- Include your reason for writing in the introduction paragraph. Your reason should grab your reader's attention.
- In the body paragraphs, first explain how the reader may disagree with you. Then give reasons that will persuade the reader to agree with you.
- Summarize your main ideas in the conclusion paragraph.

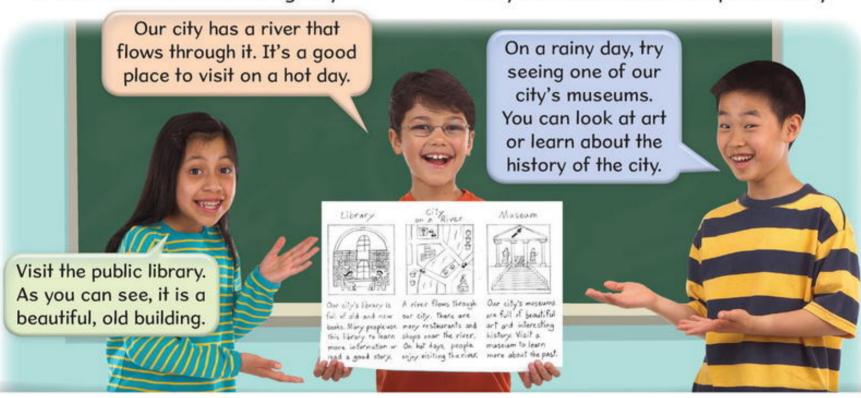


Now go to the Workbook to plan and write your own persuasive essay. page 94

## **Project: Creating a Travel Brochure**

- Create a travel brochure that shows interesting parts of your city.
  - In your group, read your persuasive essays to each other. As you listen, make a list of interesting parts of your city. You will create a travel brochure for it!
  - Your group should decide which parts of your city you want to include, what you will draw on your brochure, and who will talk about each part.
  - Make a plan for how you will share the information in an interesting way.

- Create your travel brochure. Use colorful drawings. You can also use photos of places in your city. You will talk about these places.
- Practice presenting your travel brochure with your group. Write down words you want to remember.
- Present your travel brochure to the class.
   Remember to hold the brochure so everyone can see it and to speak clearly.





- Watch the video.
- Think more about the Big Question. What did you learn?
- Complete the Big Question Chart.

What did you learn about cities?



In units WATCH **LEARN** READ 11 and 12 a video about about many parts of your body. about a scientist's journey and two body systems. you will: the human body. 106 Big Question 6





BIG QUESTION 6

# How do our bodies work?

- Watch the video.
- B Look at the picture and talk about it.
  - 1 What is the boy doing? What is he using to do this?
  - 2 How do you think the boy feels?
- Think and answer the questions.
  - 1 What parts of the body do you know? What do those parts do?
  - 2 How can you keep your body healthy?
- Fill out the Big Question Chart.



What do you know about the human body? What do you want to know?



# **Get Ready**

#### Words



cells microscope virus bacteria disease influenza

common cold mucus immune paralyze infect

- 1 Scientists study the body's cells to see how they work.
- 2 Beth uses a microscope to see plant cells.
- 3 A virus can enter your body through your nose or mouth.
- 4 Some bacteria can make people very sick.
- 5 Eating healthy food can protect you from a disease.
- 6 Thomas was in bed for two days with influenza.
- 7 Many students catch the common cold every year.
- 8 A body usually makes more mucus when it is sick.
- **9** Maria can't get the flu because she is **immune** to it.
- 10 Dr. Butler uses a wheelchair because his legs are paralyzed.
- 11 A sneeze or cough can infect another person.



- This is in your body.
   This is always bad for your body.
   bacteria virus disease
   You won't feel well if you have this.
   common cold influenza mucus
   People don't want their bodies to become this. immune paralyzed infected
- Why do scientists use microscopes? How do microscopes help scientists? Write your ideas. Then share your ideas with your partner.

### **Before You Read**



hink Did you ever have influenza or a common cold? What happened to your body? How did you feel? Tell your partner three things that happened and how you felt.

#### Learn Main Idea and Theme

Remember, the main idea is what a story is about. You can find the main idea within the words of a story.

The **theme** is a lesson you can learn from the story. Usually, the author does not tell the reader the theme. Use details from the story and your own knowledge to make an inference about the theme.

#### Read the paragraph. Circle the main idea and theme.

Did you know that the human thumb is very important? Most animals don't have a thumb like a human thumb. Human thumbs are special because we can touch every one of our fingertips with it. Because of this, we can pick up small items, write with a pencil, eat with a spoon or with chopsticks, play instruments, and much more.

- 1 What is the main idea?
  - a Our thumbs let us do many things.
  - **b** We play instruments with our thumbs.
- 2 What is the theme?
  - a Thumbs can touch fingers.
  - **b** The thumb is very special.
- Words in Context Scan the story on pages 110–111 and circle these words. As you read, guess what the words mean.

swallowed suit scrape fluid

Why do scientists study the human body? If you were a scientist, what would you want to know about the human body? Tell your partner two things you would want to know.

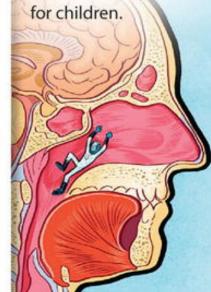
#### PREVIEW

#### UNDERSTANDING **VIRUSES** with MAX AXIOM, SUPER SCIENTIST

In this graphic science fiction story, super scientist Max Axiom gives readers a close-up look at bacteria and viruses inside the human body. Graphic science fiction contains interesting stories with colorful illustrations to help readers understand information about science. As you read, think about the main ideas and the theme of the story.



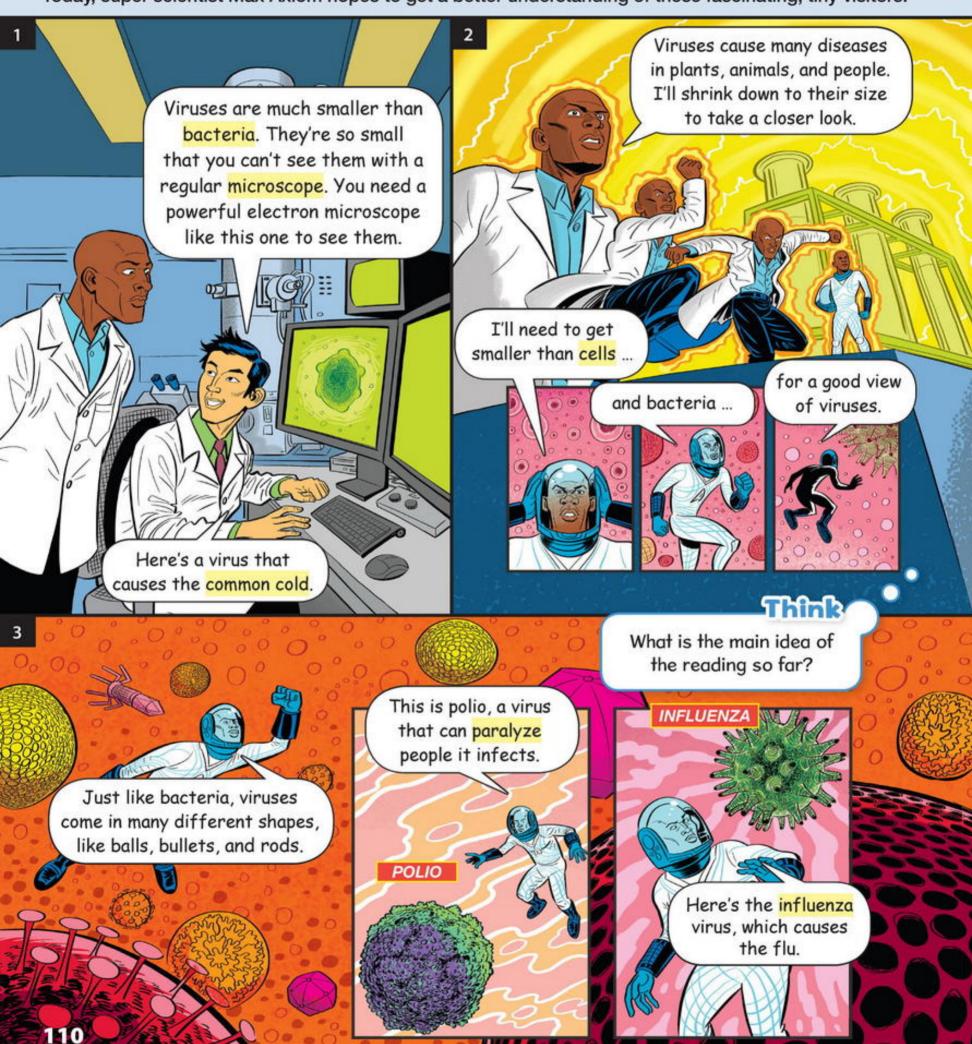
Agnieszka Biskup is a science writer. She wrote for Muse, a science magazine

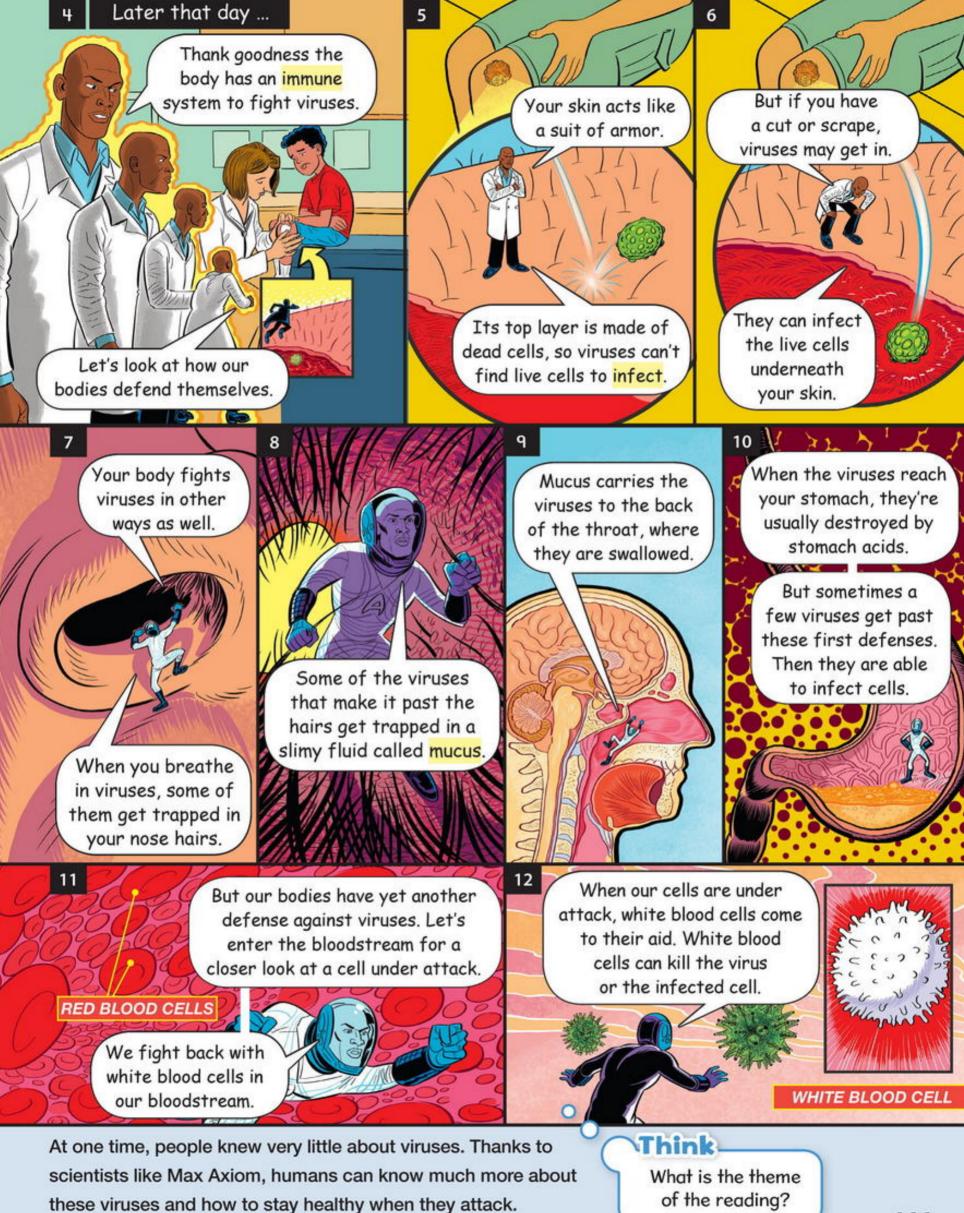


# 

Viruses may be small, but they can cause many kinds of diseases and illnesses in the human body.

Today, super scientist Max Axiom hopes to get a better understanding of these fascinating, tiny visitors.



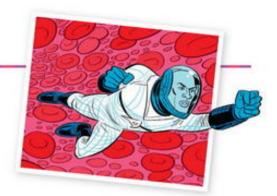


## Understand

## Comprehension



Think Were the pictures in the story useful or interesting? Why or why not? How did the pictures help you understand the information better?



- Circle the main idea and theme for the Max Axiom story.
  - 1 The main idea of the story is:
    - Scientists need electron microscopes to see viruses.
    - Viruses that go into your nose often get trapped there.
    - Viruses are dangerous, but the human body can fight them.
    - Polio is a very dangerous virus.
  - 2 The theme of the story is:
    - The human body works hard to keep you healthy.
    - Viruses and bacteria come in many shapes and sizes.
    - White blood cells are very powerful.
    - Scientists know everything about the human body.
- Circle True (T) or False (F).

1	All bacteria look the same.	T	F
2	The top layer of your skin has dead cells.	T	F

- F 3 Stomach acids can destroy viruses.
- 4 White blood cells can hurt us.
- **5** You can see viruses with just your eyes.
- 6 Mucus helps your body stay healthy.



- Words in Context Match each clue to a word. Write the correct letter.
  - 1 If a person did this, they ate food. \_\_\_\_\_ a suit
  - 2 You can wear this on your body. \_\_\_\_\_ **b** scrape
  - 3 This describes water, juice, oil, or blood. \_\_\_\_\_ c swallowed
  - 4 If you have one of these, your skin may hurt. \_\_\_\_\_ d fluid

### Grammar in Use

Listen and sing along. Get Back in Bed! 1 2-32

It's a nice, warm, and sunny day. I want to go outside and play. "You cannot play. Get back in bed! You're much too sick," my mother said.

She says I have the common cold. My head aches, and I'm hot and cold. I sneeze and blow. I blow and sneeze. More soft, white paper tissues - please!



Read the sentence. What do the three underlined words describe?

It's a nice, warm, and sunny day.

Learn Grammar Order of Adjectives

You can use more than one adjective to describe a noun. The adjectives must go in a certain order: opinion ... size ... age ... shape ... color ... kind.

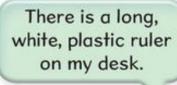
Max Axiom studies these fascinating, tiny visitors. opinion size

Read each sentence. Write the adjectives in the correct order.

- 1 The doctor washed his white, new, lab coat. \_
- 2 Max saw round, red, large viruses.
- 3 It's a tiny, gray, ugly polio virus. \_\_\_\_\_
- Describe objects in your classroom using two or three adjectives. Make a list like the one below. Then describe the objects to your partner.

#### Things in my classroom

long, white, plastic ruler



## Communicate

## Listening

Think Why do students in the same school often catch the same cold?

- Listen. Then match the two parts of each sentence. <a> 2-33</a>
  - 1 Wash your hands
- a with a tissue when you sneeze or cough.
- 2 Don't touch your eyes, nose, or mouth
- **b** often each day.

- 3 Cover your mouth and nose
- c by taking care of your body.

4 Stay healthy

od with your fingers.



- B Listen again. Write the correct answer. <a>ô</a>) 2-34
  - 1 How long should you wash your hands for? \_\_\_\_\_
  - 2 Where can viruses get into your body? \_\_\_\_\_
  - 3 What happens if you sneeze without a tissue? \_\_\_\_\_
  - 4 How often should you exercise?

## Speaking 1 2-35

With your partner, ask and answer personal questions about sickness and health.



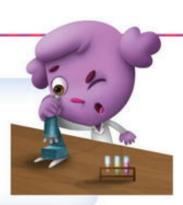
## **Word Study**



## Learn Antonyms

Remember, antonyms are words that have opposite meanings.

The skin's top layer is made of dead cells, so viruses can't find live cells to infect.



Listen and read the words. Draw arrows to connect the antonyms below. Then write a sentence for each word in your notebook. (1) 2-36

shrink dead inhale live expand exhale



## **Writing Study**



### Learn Give Advice with Commands

You can give advice to another person with a command. When you give advice with a command, you don't need to write the subject (the pronoun *you*).

Eat healthy food every day.

Don't touch your eyes with your fingers.



#### Read each sentence. Rewrite it as a simple command.

1	You should wash your hands every day	Wash your hands every	day.	

- 2 You need to protect yourself from viruses.
- 3 You shouldn't touch your mouth or nose. \_\_\_\_\_
- 4 You should buy tissues during the flu season.
- 5 You shouldn't forget to exercise often.



#### te Now practice writing in the Workbook. page 104)

Vocabulary: Antonyms • Writing: Give Advice with Commands Unit 11 115





How do our bodies work?



Our bodies protect us against viruses.

> Good health habits help our bodies work well





# **Get Ready**

#### Words



system blood heart arteries veins capillary

lungs trachea diaphragm carbon dioxide pulse

- 1 Each system in your body has many parts working together.
- 2 Blood carries oxygen throughout your body.
- 3 Jodi's heart beat quickly as she ran up the stairs.
- 4 Arthur eats low-fat food to keep his arteries healthy.
- 5 Sasha could see tiny blue veins under her skin.
- 6 A capillary is smaller than an artery or a vein.
- 7 Andy has powerful lungs because he exercises often.
- 8 Your trachea lets air into your lungs.
- 9 The baby's diaphragm moved in and out as she slept.
- 10 We breathe carbon dioxide out of our mouths.
- 11 Peter could feel his pulse in his wrist.



arteries diaphragm heart capillaries veins lungs trachea

Helps People Breathe	Helps Move Blood

Circle True (T) or False (F).

1 A system is made up of many things.

2 Carbon dioxide is a liquid. T

3 You have a pulse if you are alive.

4 Only people have blood.

### **Before You Read**



Think When you breathe, do you breathe through your nose or mouth? What part of your body moves in and out?

Learn

**Sequence of Actions** 

Many nonfiction readings describe important actions that happen in a specific order, or sequence. Look for clue words to help you understand the sequence. These words include first, next, then, as a result, while, during, before, after, last, and finally.

Read the paragraph. Then number the actions below in the order in which they happen.

Before Sara goes jogging, she prepares her body for it. First, she stretches for five minutes. Next, she walks for one kilometer to get her legs warmed up and ready for her jog. Then she jogs for 30 minutes. After jogging, she slows down and walks again for two kilometers. Finally, she stops and stretches for another ten minutes.

She walks for one kilometer. She stretches for ten minutes. She jogs for 30 minutes.

She walks for two kilometers.

She stretches for five minutes.



Words in Context Scan the reading on pages 118-119 and circle these words. As you read, guess what the words mean.

> pumps tubes squeezes major

Look at the illustration on the next page. What body parts do you see? What do you know about these body parts? What jobs do those parts do?

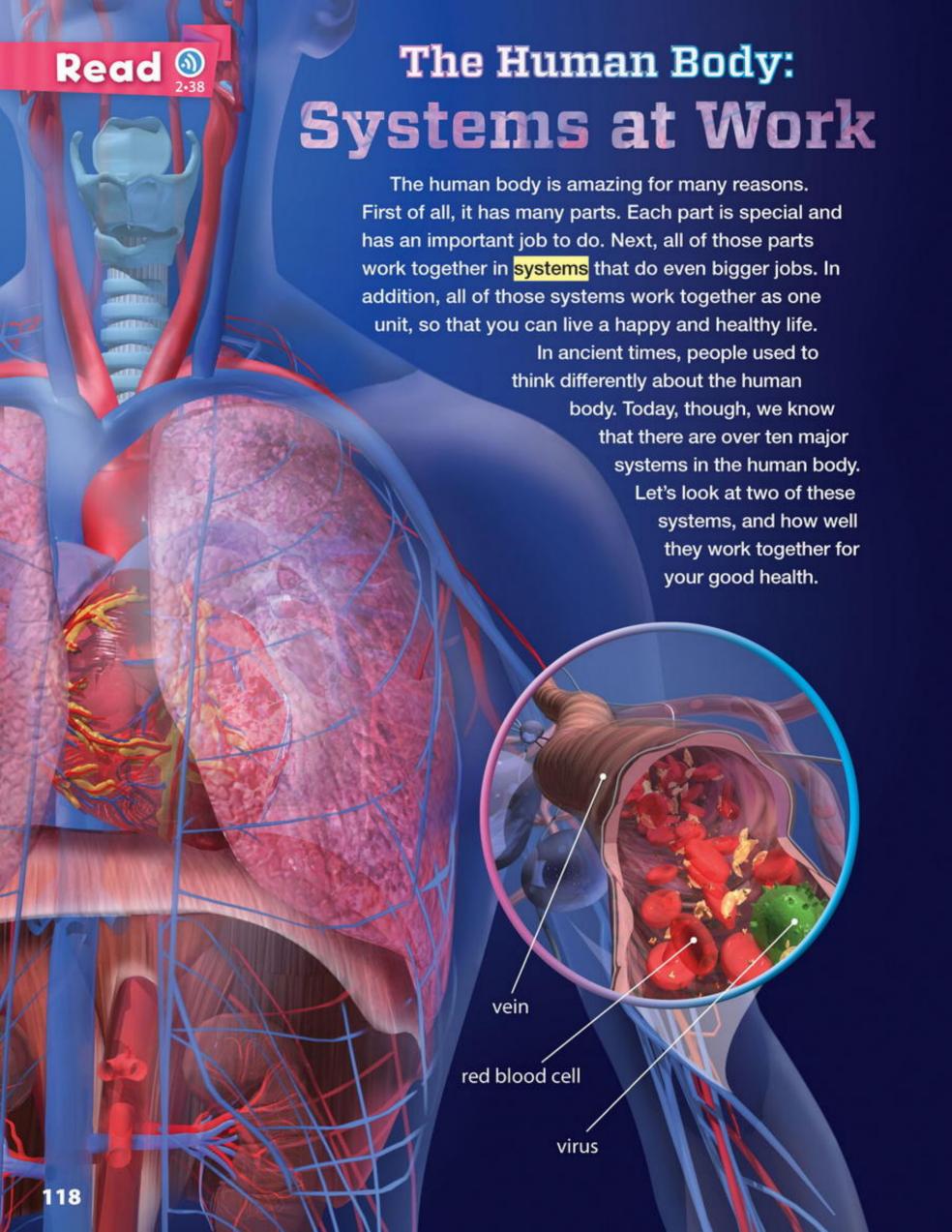
#### PREVIEW

#### The Human **Body: Systems** at Work

In this informational text, you will read about two major systems in the human body and how they work together for good health. Remember. informational texts give information about a specific topic. As you read, look for clue words to help you understand the sequence of the actions in the reading.

#### Life Science





#### **The Respiratory System**

This system brings oxygen into your body and takes carbon dioxide out of your body. The major parts of the respiratory system are the trachea, the lungs, and the diaphragm.

#### **The Circulatory System**

This system carries oxygen and food to all of the cells in your body. It then removes carbon dioxide and other waste products from those cells. The major parts of the circulatory system are the heart, the arteries, the veins, the capillaries, and the blood that moves through those parts.

#### Two Systems Working Together as One

When you breathe in, your diaphragm first helps your lungs to get bigger. As a result, the air flows into your nose or mouth, through your trachea, and into your lungs. This air has oxygen, which your body needs to live. Next, the oxygen in your lungs passes into the capillaries, which then carry blood to the pulmonary vein. This vein then takes the blood to the left side of your heart.

Your heart pumps this blood into tubes called arteries, which then carry oxygen to all of the cells in your body. Next, these cells use

Think

What is the sequence of actions up to now?

this oxygen to keep your body healthy. They also create carbon dioxide after they use the oxygen. Your body doesn't need carbon dioxide, so your blood takes it away. After veins carry this blood back to the right side of your heart, it is pumped back into your lungs. The carbon dioxide then passes back into the air in your lungs. Finally, when your diaphragm squeezes your lungs, the air rushes out of your body.

These two systems work together to bring oxygen-rich blood to every part of your body within one minute. They do this 24 hours a day, while you sleep,

What is the sequence of actions in this paragraph?

eat, study, and play. It is easy to see why the human body is called the most amazing machine in the world. You BREATHE about 20,000 times every day.

# Check Your Lung Power!

- Get a package of large balloons. Make sure they are all the same size. Give one to each friend.
- 2. Tell everyone to blow ONCE into their balloons, filling them as much as possible. Then measure the balloons. Whose is the biggest?

Put your two fists together.
This is about the size of your

# Check Your **Heartbeat!**

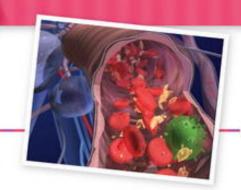
- Place two fingers on your wrist below your thumb.
   Can you feel blood moving through the artery? This is your pulse, which measures your heartbeat.
- Count the number of beats you feel in one minute.
   Compare your heartbeat with your friends.

# Understand

## Comprehension



Think Tell your partner three interesting things you learned about the circulatory and respiratory systems.



Number the steps in the correct order.

## Part One —— The lungs put oxygen into the blood. —— Blood goes from the lungs to the heart. \_\_\_\_\_ Oxygen goes into the lungs from the trachea. Part Two

- —— Blood goes back to the heart through the veins.
- Blood goes from the heart into the arteries.
- —— Blood gives oxygen to cells and takes carbon dioxide.

#### **Part Three**

- \_\_\_\_\_\_\_ Blood goes from the heart to the lungs.
- —— Carbon dioxide goes out of the lungs through the trachea.
- —— The lungs take carbon dioxide out of blood.

## Answer the questions.

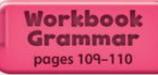
- 1 What two things does your diaphragm do?
- What does the blood in your arteries carry?
- 3 Why do arteries go everywhere in your body?
- 4 What waste product do you breathe out?



**Words in Context** Complete each sentence with a word from the box.

major pump tube squeeze		major	pump	tube	squeeze
-------------------------	--	-------	------	------	---------

- 1 A fire engine can \_\_\_\_\_ water through a fire hose.
- 2 Don't \_\_\_\_\_ the balloon, or it will pop!
- 3 The lungs are a \_\_\_\_\_ part of the respiratory system.
- 4 The science teacher filled the long \_\_\_\_\_ with water.



### Grammar in Use

Listen and read along. 1 2-39



- Read the sentences. Which sentence shows what someone did often? a When I was young, I used to ride my bike. **b** I rode my bike today.
- Learn Grammar Used To Use used to before an action that happened often in the past, but not now. In ancient times, people used to think XXXXX Past Present **Future** differently about the human body. Compare this to an action that happened one time in the past. Last week, I thought about the Past **Future** circulatory system.

#### Circle the correct answer.

- 1 My sister used to go / went to the swimming pool often as a child.
- 2 Sandra used to go / went to the store yesterday.
- 3 My father used to play / played games with his friends many years ago.
- I used to take the bus to Make a chart like the one below. school. I took the subway Then talk to your partner about it. to school on Friday. Things I did often Things I did one time used to take the bus took the subway

## Communicate

## Listening

Think Why do our bodies need bones? How do bones help our bodies?

- Listen. Match each speaker to a fact. 1 2-40
  - 1 Eduardo
- 2 Wendy
- 3 Kaya
- 4 Subin

- The spine has

26 bones.

- Only one bone in the skull can move.
- An adult has 206 bones.
- Each hand has 27 bones.
- B Listen again. Circle True (T) or False (F). 🕥 2-41
  - Adult humans have more bones than babies do.
- 2 The bones in the spine are shaped like rings.

3 The skull is made up of one bone.

- 4 Your feet have more bones than your hands.

## Speaking 1 2.42



When you need to explain what something is, use the words that or where to add more information.

What is the stomach?

It's a part of your body. not much information

It's a part of your body that breaks down food. more information

It's a part of your body where food goes. more information

Explain what things are with your partner. Use that or where.



## **Word Study**



### Learn Verbs that End in -ate

Nouns that end in -ation can often become verbs by changing the ending to -ate.

Good circulation is very important for your body. (noun) This system circulates your blood. (verb)



Listen and read the words. Then complete the verbs in the chart. 1 2-43

navigate duplicate estimate concentrate exaggerate graduate



Noun	Verb	Noun	Verb
1 estimation		4 exaggeration	
2 graduation		5 duplication	
3 navigation		6 concentration	

## **Writing Study**



#### Learn Subject / Verb Agreement with Indefinite Pronouns

Many indefinite pronouns, such as anyone, everyone, somebody, anything, and no one, are followed by a singular verb in a sentence.

When everyone works together, you can do great things! Anything is possible when you work hard.

#### Circle the correct verb.

- 1 Everyone need / needs to exercise to keep their bodies strong.
- 2 Something is / are in your blood that your cells need. What is it?
- 3 Do / Does anyone know what a capillary is?
- Nobody want / wants to get hurt when they play a sport.
- **5** Everything in the science book **is** / **are** fascinating.



**te** Now practice writing in the **Workbook**. page 112





## Writing

Read Max's interview with a part of the body.

#### An Interview with the Human Heart Max: Good morning, Heart. How's it going today? Introduction Heart: It's going great, Max. I'm working, as usual. What do you do, Heart? Questions Max: Answers Heart: I pump blood through the body. How often do you pump? Max: Heart: All the time. I pump about 70 times each minute. I see. Where are you located in the human body? Max: Heart: I'm in the chest area, a little to the left side, under the rib cage. That's a group of bones that protects me and the lungs. Max: What do you look like inside? Heart: I have four chambers. They are like rooms inside me. You have an important job to do. Max: Heart: Yes. I'm a very busy body part, and I never get a break! Well, I'll let you get back to work. Thanks for talking to me today! Max: Closing Heart: Of course, Max. Come back anytime. I'll be pumping with a smile!

- Answer the questions.
  - 1 How many times does a human heart usually pump each minute?
  - What is inside a human heart?

#### Learn Interview

- Brainstorm interesting questions that you want answers to.
- Do research to find the correct answers to these questions.
- Write your interview as if you are really talking with someone.
- Include an introduction and a closing in your interview.



Now go to the Workbook to plan and write your own interview. page 113

## Project: Conducting an Interview

- Conduct an interview with a human body part. Then perform it.
  - In pairs, read your interviews to each other and talk about them.
  - Choose which interview you want to perform for the class. Decide who will lead the interview and who will be the body part.
  - Decide what to add to make the interview more interesting. You can add more information or props, such as simple costumes.

- Practice the interview with your partner a few times. Add actions or gestures to make the interview more interesting.
- Try to memorize most of your parts, and write down any words that you don't want to forget.
- Perform your interview for the class.
   Try to sound natural. Speak loudly and clearly.



In units WATCH **LEARN** READ 13 and 14 a video about how about different types an interview and you will: of mass media. people get information. a reporter's blog. Big Question 7

WRITE a news story.

CREATE a school news program.







# What is the mass media?

- Watch the video.
- Look at the picture and talk about it.
  - 1 What does each person have? What can they do with these things?
  - 2 What do you think each person is looking at or reading about?
- Think and answer the questions.
  - 1 Where do you get news and information?
  - 2 What news did you hear today?
- Fill out the Big Question Chart.



What do you know about the mass media? What do you want to know?



# **Get Ready**

#### Words

Listen and read the words. Listen again and say the words. 303













mass media

newspaper

magazine

printing press

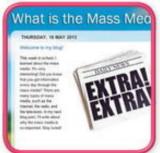
publisher

advertising











broadcast

the Web

smartphone

blog

social network

## Circle the correct answer.

1 You can share your thoughts on this.

Some people get this in the mail.

You can check the news on this.

Many people read this every day.

5 People use this to find information about anything.

publisher

blog

magazine social network

printing press

smartphone

newspaper

broadcast

advertising

the Web

## Answer the questions.

1 What forms of mass media do you use?

2 Why do people use advertising?

**3** Why is a printing press helpful?

### **Before You Read**



Think When do you learn new information about the world? How do you feel when you learn this new information?

#### Learn Main Idea and Supporting Details

An entire reading will have one main idea. Also, each paragraph or section in the reading will usually have its own main idea. Supporting details explain the main idea of a reading or a paragraph.

Read the information. Write the main idea and three supporting details in the graphic organizer.

Derek is very interested in news from around the world. Every morning while he eats breakfast, he reads the newspaper. On the train to work, he uses his smartphone to check news on the Web. After he returns home at night, Derek watches news on television and then discusses it on a social network with his friends.

Main Idea

Supporting Detail

Supporting Detail

Supporting Detail

Words in Context Scan the reading on pages 130–131 and circle these words. As you read, guess what the words mean.

journalist newsreels radio station latest

What news did you share with your friends today at school? Where did you hear this news?

#### PREVIEW

#### From Newspapers to Smartphones: The Rise of the Mass Media

In this interview. an expert explains how the mass media began and how it continues to change as it brings news and information to people. In an interview, a person shares his or her knowledge on a subject. As you read, notice the main ideas in the reading and their supporting details.

#### Social Studies: Technology









# From Newspapers to Smartphones:

Thanks to the mass media, news travels fast. Journalist Megan Michaels interviews Dr. Philip Kendall, a mass media expert.



#### Megan: Thank you for meeting with me, Dr. Kendall.

Dr. Kendall: You're welcome.

#### Megan: People like to share news, don't they?

**Dr. Kendall:** Absolutely. Long ago, when early humans discovered how to make fire, they told their friends. Then those friends told others. Ideas spread from person to person, and in fact, they still do. However, mass media is different. It brings news and knowledge to many people very quickly.

#### Megan: When did mass media begin?

**Dr. Kendall:** It began around 1440, when Johannes Gutenberg changed the way news traveled. You see, he invented the printing press. Before the printing press, people had to make copies of books by hand. Suddenly, this invention could make copies of books much more easily. Then, about 150 years later, people printed the first newspapers in Europe. Today, people around the world read newspapers every day.

#### Megan: How many newspapers are there?

Dr. Kendall: Newspapers, along with magazines, are very popular. There are over 6,000 daily newspapers in the world today. Publishers print almost 400 million copies each day. Magazines are popular because they focus on one subject, such as news, movies, fashion, or sports. Advertising helps to pay for the cost of publishing newspapers and magazines.

Megan: So what happened next in the history of mass media?

**Dr. Kendall:** Movies were the next form of mass media. People started

going to movie theaters about 100 years ago.

#### Think

What is the main idea in this paragraph? What details support it?

#### 1440s





1800s

#### 1900s





1920s

# The Rise of the Mass Media

What is the

main idea in this

paragraph? What

details support it?

These new "moving pictures" amazed people.

Often, movie theaters showed newsreels, too.

These were short films with news from around the world. People watched the news for the first time this way.

# Megan: And then the television came next, right?

**Dr. Kendall:** Actually, the radio came next. It appeared about the

same time as movies, but the first radio station didn't get started until about 1920. Today, there are over 44,000 radio stations around the world.

#### Megan: Do people still get their news from the radio?

**Dr. Kendall:** Yes, they do. Many radio stations report the news every hour. Some stations broadcast the news all the time. People can listen to the news while they drive or work.

#### Megan: When did the television appear?

**Dr. Kendall:** Television broadcasting started in the 1930s. Now, television is everywhere, bringing news and entertainment to people around the world. Some stations now offer

24-hour news. Events are broadcast live, while they are happening.

# Megan: So people have a lot of choices for their news, don't they?

Dr. Kendall: They do, but you mustn't forget the latest choice—the Web! Today, almost one third of the people in the world use the Web, and this number will continue to grow. The Web, or Internet, lets us read news, watch videos, and share information through social networks and blogs. Many people think that the Web is now the most important form of mass media. Also, smartphones give us Web service, so you don't have to carry a computer to check the news.

#### Megan: We live in very interesting times.

**Dr. Kendall:** That's true. It will be exciting to see what's next in the world of mass media.



What is the main idea of the entire interview? What details support it?

#### 1930s





1950s

#### 1980s





2000s

## Understand

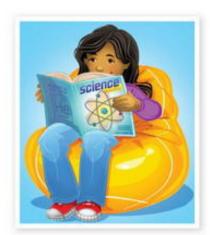
## Comprehension



Think What else do you want to know about mass media? Tell your partner three things that you want to know more about.

- Write the number for each detail beside the correct main idea in the chart.
  - 1 One third of the people in the world use the Web.
  - 2 There are over 6,000 daily newspapers in the world today.
  - 3 These new "moving pictures" amazed people.
  - 4 He invented the printing press around 1440.

Main Ideas	Detail
Gutenberg changed the way news traveled.	
Newspapers and magazines are very popular.	
Movies were new 100 years ago.	
The Web is used a lot today.	1



Write the types of mass media in the order in which they appeared in history.

the Web movies television radio newspapers

Oldest -	► Newest
newspapers	

- Words in Context Read each numbered sentence. Then circle two correct answers for each sentence.
  - Megan Michaels is a journalist.
    - She asks questions. a She writes music. c She writes down information. b
  - 2 People watched <u>newsreels</u>.
    - a Newsreels gave news. **b** People saw them at theaters. c They were long.
  - 3 There are many radio stations in the world.
    - b They are not popular. c Some broadcast music. They broadcast news.
  - 4 The Web is the latest choice for news.
    - a It is an old choice. **b** It is the newest choice. c It didn't exist many years ago.



#### Grammar in Use

D Listen and sing along. The News Today 🕥 3-04

I have to know what happened.
I mustn't miss the news.
I must buy a newspaper,
But which one shall I choose?

You don't have to buy a paper. You can use my new smartphone, And we can check the Internet While we're walking home.



- Read the sentences. Which one is about what someone needs to do?
   a I must buy a newspaper.
   b You don't have to buy a paper.
- | Learn Grammar | Must, Mustn't, Have To, Don't Have To

Use **must** and **have to** to talk about what a person needs to do.

Use mustn't to talk about what a person shouldn't do.

Use don't have to to talk about what a person doesn't need to do.

You must pay for the Internet to use it at home.

You mustn't take a newspaper without paying for it.

You don't have to carry a computer to check the news.

#### Read the sentences. Circle the correct verb.

- 1 Maki has to / doesn't have to help her mother cook because she has to study.
- 2 You must / mustn't bring your smartphone into class. Leave it in your locker.
- 3 Our teacher is not happy. He says we have to / don't have to study harder.
- Imagine you are a teacher. Make a chart like the one below. Then talk about it with your partner.

You must walk quietly in the halls.

Students must	Students mustn't
walk quietly	



## Communicate

## Listening



Think If you had a blog, what would you write about? When would you write it? Who would you want to read your blog?

- $\triangle$  Listen. What is the girl talking about? Check ( $\checkmark$ ) the correct box.  $\bigcirc$  3.05 She's talking about how to find interesting blogs to read. She's talking about how to create and use a blog. She's talking about how to find photos and videos on the Web. Listen again. Answer the questions. 33-06 1 What kind of site does Tina use for her blog? \_\_\_\_\_
  - 2 What does Tina write about? \_\_
  - 3 When does Tina write on her blog? \_\_\_\_\_
  - 4 What kind of mistakes does Tina check for? \_\_\_\_\_
  - 5 What is Tina's only contact on the blog? \_\_\_\_\_

## Speaking 1 3-07

How do people you know get news? Share your ideas with your partner and give examples.



## **Word Study**



#### Learn Words with Silent k

Some words have letters that are silent. In words that begin with kn-, the k is silent.

Mass media brings knowledge to many people.



Listen and read the words. Then listen to the sentences. Write each silent k word you hear in your notebook. 33-08

knowledge knot knight knit kneel knuckle



## **Writing Study**



#### Learn Pronouns

Remember, pronouns are words that take the place of a noun or another pronoun. Pronouns should always agree with the words they take the place of.

When early humans discovered how to make fire, they told their friends.

They and their are pronouns for the noun humans.

### Read the sentences. Circle the pronouns. Then draw arrows to the nouns they take the place of.

- 1 My grandfather reads the newspaper. Then (he) recycles (it)
- 2 The Internet gives people facts, but it also gives them opinions.
- 3 Jenny plays the radio when she does her homework.
- Blogs are very useful. They help people share their thoughts.



Now practice writing in the Workbook. page 123

Vocabulary: Words with Silent k • Writing: Pronouns Unit 13





The mass media spreads facts and knowledge.

> The mass media sends information to many people quickly.





# **Get Ready**

#### Words

Listen and say the words. Then read and listen to the sentences. 33-09

reporter interview headline editor hero website decide investigate mistake discuss search

- The **reporter** won an award for his newspaper article.
- 2 The editor made changes to the reporter's article.
- 3 She had an **interview** with the mayor.
- 4 The **headline** on the newspaper was about the fire.
- 5 Jim was a hero after he saved the child from the fire.
- 6 This news website has a lot of information.
- 7 Editors always check for mistakes in an article.
- 8 The editor **decides** which articles to put in the magazine.
- 9 Students will discuss what they learned from the blog.
- 10 The police will investigate the fire to see how it started.
- Eric **searched** the newspaper for interesting stories.
- Two of the three words are correct. Cross out the wrong answer.
  - 1 This person often works for a newspaper.

editor hero reporter

2 A reporter may do this.

website investigate search

3 You can read this.

headline website hero

4 There must be two people to do this.

decide discuss interview

- Answer these questions. Then discuss the answers with your partner.
  - 1 When was the last time you made a mistake?
  - 2 What kinds of websites do you search for?





## **Before You Read**



Think What are some brave things that people do? How can you be brave?



### Learn Conflict and Resolution

An interesting story has a conflict (a problem that a character needs to solve) and a resolution (a solution to a problem). Usually, there are many possible resolutions in a story but only one *final* resolution.

#### Read the short story. Fill in the chart below.

The news photographer looked through his camera, but everything was black. He checked the battery, and it had full power. Then he made sure the power button was "on." He didn't know what to do! Suddenly, his friend said, "Hey, your lens cap is still on the camera." The photographer laughed, took off the lens cap, and took a picture of his friend.

ery's

Words in Context Scan the story on pages 138–139 and circle these words. As you read, guess what they mean.

mansion terrible donated fair

Why are reporters an important part of the mass media? What does a reporter have to do to get information to use in a story?

#### PREVIEW

#### From the Blog of Elsa B. Garcia. Kid Reporter

In this realistic fiction story, a young reporter helps someone in need. Realistic fiction has characters, problems, and settings that seem real. As you read, think about the story's conflict and possible resolutions.



Elizabeth Cody Kimmel is the author of over 30 children's books. She lives near New York City.

















July 5. I have decided to keep a blog so the world can read about all the things I investigate. Today I heard that they are going to tear down the old stone house across the street. The newspaper says the city government owns the house, and just one person lives there. Why does the city government own an old house? Who lives there? I have decided to find out because I want to save the house.



What is the main conflict in the story?

**July 6.** I used the Internet to search for articles about old houses on my street. I found an entire website

called The Lost History of Stone House. It said the stone building was once the gatehouse of a huge mansion. A family called the Martins lived there until one night a terrible fire burned the mansion down. The young daughter of a maid smelled the smoke and woke up every single person in the house. Everyone got out safely that night. The website showed the front page of an old newspaper with a story about the fire. The headline said: "Young Girl, 9, Saves Seven People in Mysterious Fire." She was the same age as me!

# Young Girl, 9, Saves Seven People in Mysterious Fire

**July 7.** I am going to visit the house to see if I can talk to the person who lives there. I have never done an interview before, and I'm very nervous. What if I make a mistake?

July 7, Part 2. I did it! A woman who looks like my grandmother answered the door. She said her name was Miss Lu, and that she would be happy to answer my questions. She knew all about the mansion and the fire. I learned that the Martin family donated a lot of money to the city to help build the library and the hospital. After the fire, they decided to move away and let the city have their land. I asked Miss Lu if she knew the Martins. She smiled and said no one had ever asked her

that before. When she told me the answer, I couldn't believe it. My mom says I have to go to sleep now, so read my blog tomorrow for the rest of the story!



Think

What possible resolutions are there to the conflict?

**July 8.** I'm back! Miss Lu knew the Martins because she lived in the mansion, too. Yes, readers, Miss Lu was the little girl who saved the family that night! I am writing a letter to the editor of our newspaper asking the mayor not to destroy the house. Miss Lu is a hero, and it isn't fair to take away her home!



**July 10.** Today, a television reporter came to interview me. You can watch it on Channel 7 tonight!

**July 11.** I have more wonderful news. My story will be on a radio show that will be broadcast to the entire city tonight!

**July 15.** Today I got an e-mail from the mayor. He said there will be a special meeting to discuss the house. I'm amazed that he took the time to write to me!

**August 1.** Awesome news! The mayor decided not to tear down the old house! He agrees that Miss Lu is a hero and should be able to live there as long as she likes. This is the first news story I have ever investigated. I love being a reporter, and I can't wait to find more stories!



What is Elsa's final resolution to the conflict?

## Understand

## Comprehension



Think What did the story teach you about the mass media? Tell your partner two things you learned.



Complete the chart about "From the Blog of Elsa B. Garcia, Kid Reporter."

Conflict	Possible Resolutions	Final Resolution
The city government will tear down the old stone house.		

- Answer the questions.
  - 1 Why did Elsa decide to keep a blog?
  - 2 Why is Miss Lu a hero?
  - 3 How did Elsa help Miss Lu?



- Words in Context Match each sentence to a clue. Then match each clue to a conclusion.
  - 1 The Martins lived in a huge mansion.
- a Libraries need money.
- e The underlined word means a large house.

2 The fire was terrible.

- b Taking away someone's home is bad.
- f The underlined word means very bad.

- 3 The Martins donated money to build the library.
- c The Martins had a big house.
- q The underlined word means right or correct.

- 4 It's not fair to take Miss Lu's home.
- d This fire burned down the house.
- h The underlined word means gave away.



### Grammar in Use

Listen and read along. 🕥 3-11



- Look at 🕦. What has Harry done in the past?
- Learn Grammar Present Perfect

Use the present perfect tense to tell what happened in the past but did not happen at a specific time. Use the past participle form of the main verb with has or have.

I have decided to keep a blog. past participle

He hasn't written a blog before.

past participle

#### Read the sentences. Underline the present perfect tense.

- 1 The reporter has done many interviews.
- 2 She hasn't met the newspaper editor.
- 3 Smartphones have changed the news business.
- Make a list like the one below. Then talk to your partner about it.

#### Things I haven't done

meet a reporter



## Communicate

## Listening



Think When are facts important in the news? When are opinions important in the news?

Listen. Decide if each piece of news below is a fact or an opinion. Circle the correct answer. 1 3-12

#### News

#### Fact or Opinion?

- 1 The cooks will serve spaghetti with tomato sauce.
- 2 The Westview soccer team did their very best.
- 3 No one likes a rainy day.
- 4 The sports festival is from 10:00 to 4:00 on Saturday.



- Listen again. Answer the questions. 3 3-13
  - 1 What was the score of the soccer game? \_\_\_\_\_
  - 2 What should students bring because of the rain? \_\_\_\_\_
  - 3 When is the school sports festival? \_\_\_\_\_

## Speaking (1) 3-14

**Learn** Giving Opinions

Give your opinion using I think or I don't think. Use because to add a reason.

I think that nature blogs are interesting. I don't think that all blogs are interesting because some are boring.

Share your opinions about the mass media with your partner. Give reasons for your opinions.

I think reporters have a difficult job.

Why do you

think that?

I think that because ...

Yes, that's true. I think that ... because ...

## **Word Study**



## Learn Synonyms

Remember, synonyms are words that have similar meanings.

One night, a terrible fire burned the mansion down.

One night, an awful fire burned the mansion down.



Listen and read the words. Then match the sentences with synonyms. 13-15

huge immense special unusual whole entire

- 1 It broadcasts to the *entire* city.
- a It's an immense home.

- **2** The mayor has a *special* meeting.
- **b** The *whole* city can listen.
- **3** The family lived in a *huge* mansion.
- **c** The meeting is unusual.

## **Writing Study**



#### Learn Regular and Irregular Verbs in the Present Perfect

Remember, use the present perfect to tell what happened in the past. Use has or have with the past participle of a main verb. For regular main verbs, add -ed.

George has learned a lot from this science blog.

For irregular main verbs, the past participle has different forms.

I've seen the inside of a television studio.

#### Read each sentence. Write the past participle form of the verb in parentheses.

#### written

- William has (write) six books, and all of them are bestsellers.
- 2 The reporter has (investigate) many unusual events.
- **3** Lily has (go) to South America to report on the news there.
- 4 Marco has (build) his own radio from a kit.





Now practice writing in the Workbook. page 131



### Writing

Read this news story about a real event.

### Headline Byline

New Water Park Opens in Elmwood by Elena Whitehall

Lead

The Elmwood Water Park has opened just in time for summer. The 20-acre park has something for everyone.

Young children will love the splash pool, where they can run through spraying water. Older children will enjoy the five exciting waterslides. One of the slides drops 10 meters for those who like thrills. Serious swimmers will enjoy the new 25-meter lap pool. "I've never been in such a nice swimming pool," said one visitor.

Facts and Quotations

Mayor Julie Swanson is very happy about the new park. "I'm very proud of this addition to Elmwood," she said. "This new park will bring friends and families together throughout the summer months."

The park is open 7 days a week, from 10:00 a.m. to 5:00 p.m. It's free and open to the public. Children under 12 must have a parent with them. The park is on the west side of the city, across from the zoo.

### Answer the questions.

- 1 What features of the park will people like?
- **2** Who can go to the park without their parents?
- 3 How many hours per day is the park open?

### Learn News Story

- A news story answers who, what, when, where, and why.
- It has a headline (title) and a byline (writer's name).
- It has a lead (introduction paragraph) that catches the reader's attention.
- Often, it includes information and quotations from an interview.
- All the information in a news story should be true and correct.



Now go to the Workbook to plan and write your own news story. page 132

## **Project: Creating a School News Program**

- Create and perform a school news program.
  - In your group, discuss recent school events. Each person will report on one recent event in a news program.
  - · Decide what each person will report on, such as school lunches, sports, art news, or weather.
  - Decide how to make your news program interesting, and choose the order of speakers.

- Practice your news program with your group. Speak slowly and clearly.
- Try to memorize what you will say, but write down important words and phrases if you need to.
- Perform your news program for the class. Pretend you are on television while you perform your news program.





Watch the video.



Think more about the Big Question. What did you learn?

Complete the **Big Question** Chart.

What did you learn about the mass media?



In units 15 and 16 you will: **WATCH** a video about nature's power.

LEARN about forces of nature.

**READ**about natural forces and a family that faces one.

WRITE a how-to speech.

CREATE an emergency poster.





BIG QUESTION (8)

What can we learn from nature's power?

- 🔼 Watch the video. 🔃
- B Look at the picture and talk about it.
  - 1 What do you see? How does it make you feel?
  - 2 If you were in this place, what would you do?
- Think and answer the questions.
  - 1 What types of bad weather or natural forces do you have in your area?
  - 2 What can you do to prepare for bad weather or natural forces?
- Fill out the Big Question Chart.



What do you know about nature's power? What do you want to know?



# **Get Ready**

### Words

A Listen and read the words. Listen again and say the words. 13-16













flood

earthquake

tsunami

hurricane

tornado

blizzard











thunderstorm

rescue worker

victim

power lines

collapse

- B Circle True (T) or False (F).
  - 1 A tornado is like a dangerous moving column.
- T

2 A blizzard can happen without snow.

- T
- **3** An earthquake can't crack streets and move buildings.
- T

4 Rescue workers must be brave and helpful.

T F

5 A victim helps other people.

6 Heavy rain doesn't cause floods.

T

7 Hurricanes are large and shaped like a circle.

- F
- 8 A tsunami isn't dangerous to people on a coast.
- F
- Complete the sentences with the following words.

thunderstorm collapsed power lines

Strong winds made the \_\_\_\_\_\_ shake up and down during

the \_\_\_\_\_\_. Some of them even \_\_\_\_\_\_.

### **Before You Read**



Think Do you think it is important to understand natural forces? Why or why not?

### Learn Cause and Effect in a Series of Events

Remember, a cause happens first. An effect happens next because of the cause. Cause and effect can also describe a series of events. A cause can create more than one effect.

Cause	First Effect	Second Effect	
Snow fell through	Schools closed	All the students	
the night.	the next day.	were happy.	

Read the sentences. What is the cause? What effects happen because of it?



Yesterday, it rained very hard, and the river rose too high. Grace and her family climbed to the roof of their house. Rescue workers came in a boat. They took the family to safety.

Cause: It rained very hard.	
1st Effect:	
2 <sup>nd</sup> Effect:	
3 <sup>rd</sup> Effect:	
4 <sup>th</sup> Effect:	

**Words in Context** Scan the reading on pages 150–151 and circle these words. As you read, guess what the words mean.

forces funnel horizontally vertically

Quickly look at the pictures in the article on the following two pages. How do you feel when you look at them? How are they alike and different?

### PREVIEW

### Forces of Nature

In this science article, you will read about forces of nature that can cause harm to living things. Science articles are often full of scientific facts and powerful photographs. As you read about each force of nature, think about its cause and the effects of the cause.

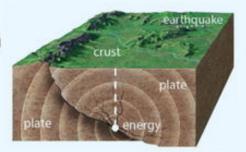
**Earth Science** 



Earth is a beautiful planet. Its oceans and lakes, blue skies, and rich land give us what we need to live. However, nature also has a very powerful side. It creates forces that can cause great harm to human life and property.

### **EARTHOUAKES**

The outside part of Earth is the crust. Under the crust are many pieces called plates. The plates create energy when



they move against each other. In an earthquake, the plates release this energy quickly. This energy moves the ground. In strong earthquakes, objects and even buildings can collapse.

When an earthquake happens under the ocean, parts of the ocean floor may rise or fall suddenly. This can create a tsunami. A tsunami travels very fast through the water. When it reaches a coast, it pushes huge amounts of water onto the land.

This water can destroy everything in its path. In 2011, many people died on the coast of eastern Japan in a large tsunami. Many rescue workers helped the victims of this disaster.

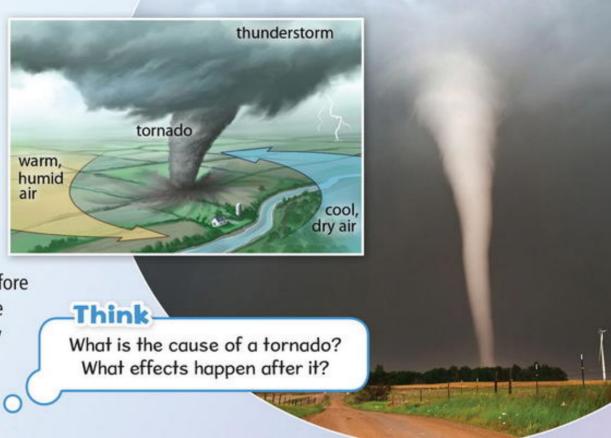
### HURRICANES

A hurricane is a large, violent storm. It forms over warm ocean water and can grow to over 500 kilometers wide. Hurricane winds can blow from 100 to 250 kilometers per hour. When a large hurricane reaches land, it can destroy buildings and homes. The ocean water can rise and create floods. A large hurricane can knock down many trees and hurt plants, fish, and coral along a coast.



### **TORNADOES**

Have you ever seen a real tornado?
A tornado often looks like a funnel, and has strong spinning winds of up to 400 kilometers per hour.
These winds can easily destroy homes and trees. An average tornado is about 75 meters wide near the ground, but some can be much larger. Tornadoes often form before a thunderstorm, when warm air in the atmosphere starts to spin horizontally across the sky and then vertically toward the ground. North America has more tornadoes than any



### BLIZZARDS

other place in the world.

In cold climates, snowy days are common.

However, sometimes blizzards completely cover an area. Blizzards are very dangerous to drive in, because drivers can't see far away and may lose control of their cars on the snowy roads. Heavy snow can also break power lines and the roofs

of homes. People who are outside in a blizzard can get lost, and the cold, windy air can freeze skin that isn't covered up. Blizzards can go on for days, which is dangerous for people who run out of food or need medical care.



Luckily, there are warning systems for these natural disasters. People in some countries can receive a message on their cell phones seconds before an earthquake strikes. Tsunami warning systems can give people time to leave the coast and move to a safe place. Modern weather systems warn people about weather conditions that may create tornadoes and blizzards. All of these systems help us prepare for nature's power.

# **Understand**

### Comprehension



Think Which force of nature is the most interesting? Tell your partner your ideas.



Connect each force of nature to a cause and two effects.

### Force of Nature First Effect Second Effect 1 Earthquake: • e Buildings a The storm Earth's plates grows and and objects suddenly reaches shake. land. release energy. b This spinning 2 Hurricane: f Drivers can't air reaches Warm ocean see and are air forms a the ground. not safe. storm. 3 Tornado: Snow covers g Trees fall Warm air the roads. and floods starts to spin. happen. 4 Blizzard: • d This energy h It destroys

moves the

ground.

# B Answer the questions.

Heavy snow

falls. Strong

winds blow.

- 1 Why is a tsunami so dangerous?
- 2 Which has stronger winds, a hurricane or a tornado?
- 3 What kinds of warnings can people receive?



everything

in its path.

### Words in Context Complete the sentences with the words in the box.

1	The weather balloon rose _	into the air.	
2	The dark	_ of the tornado looked scary	
3	Snow blew	across the road.	
4	An earthquake's	can crack a street.	

force funnel vertically horizontally



### Grammar in Use

D Listen and sing along. Nature's Power 🕥 3-18

Have you ever felt an earthquake? No! Thank goodness. I've never felt an earthquake,

And I hope I never do!

Have you ever seen a tornado? Yes! One time! I once saw a tornado, But it was on TV!



- Look at D. Has Meg ever experienced an earthquake?
- Learn Grammar Present Perfect with Ever and Never

Use the present perfect with ever and never to ask and answer questions about life experiences.

Have you ever seen a real tornado?

Yes, I have. / No, I haven't. I've never seen a real tornado.

Add the word ever to each question. Then answer the question.

1 Have you experienced an earthquake?

Have you ever experienced an earthquake? Yes, I have.

- 2 Have you escaped from a hurricane?
- 3 Has your teacher driven in a blizzard?
- Make a chart about experiences. Ask your partner about them.

Have you ever watched a scary movie?



watched a scary movie

yes

# Communicate

### Listening

Think Why is it important to stay calm during a natural disaster?

Listen. Match each problem to a solution. 3 3-19

### **Problem**

- 1 Large objects can fall down in your home during an earthquake.
- 2 You don't know where to go in your home if an earthquake happens.
- 3 There may be no electricity or running water if an earthquake happens.
- B Listen again. Circle True (T) or False (F). 🕥 3-20 When an earthquake happens ...
  - It's important to be prepared.
  - 2 If you are outdoors, climb a tree.
  - 3 Use a radio or smartphone to get information.

### Solution

- a Decide on a safe place before an earthquake happens.
- b Keep extra supplies in a safe room in your home.
- c Attach large pieces of furniture to the wall.



Speaking 🕥 3-21



### **Word Study**



### Learn Compound Nouns with Noun-Verb Combinations

Some compound nouns are made from a noun and a verb. When we say these compound nouns, the stress is usually on the first word.

In an earthquake, the plates release energy quickly. noun verb



Listen and read the words. Underline the two parts of each compound noun. 3 3-22

snowfall haircut teamwork raindrop landslide bodyguard



## **Writing Study**



Learn Contractions in Present Perfect Sentences

You can use **contractions** in present perfect sentences with subject pronouns.

We've bought extra water in case of a storm. (we + have = we've) She's seen a tornado in her town. (she + has = she's)

Read the paragraph. Make contractions with the subject pronouns.

Teresa has experienced many forces of nature in her life in Mexico. She's She has experienced a small earthquake that was quite scary. She has also been in a hurricane. I have only been in a blizzard. My family hasn't been in many dangerous situations. We have usually been safe!



Now practice writing in the Workbook. page 142

Vocabulary: Compound Nouns • Writing: Contractions Unit 15 155



# What can we learn from nature's power?

Nature can be dangerous.

> Warning systems are important for people's safety.





# **Get Ready**

### Words

emergency

⚠ Listen and say the words. Then read and listen to the sentences. 🕥 3-23

first-aid kit

Listen and say the words. Therrieda and listen to the semences.

flashlight batteries supplies bottled water canned food

cash

storm shutters

1 Fire fighters are always ready for an emergency.

storm shelter

2 The family stayed in the storm shelter during the tornado.

3 Billy's mother used her first-aid kit when Billy cut his finger.

4 Minju didn't have any cash to buy a sandwich.

5 Many houses near the ocean have storm shutters.

6 Take a sleeping bag on the overnight camping trip.

7 A flashlight is useful if there is no electricity.

8 Small radios and flashlights often need batteries to work.

9 You can buy emergency supplies at a supermarket.

10 The campers took **bottled water** on their trip.

11 Be sure to pack a can opener with the canned food.

# Two of the three words are correct. Cross out the wrong answer.

1 This helps you get what you need. supplies storm shutters cash

2 This can help you see in the dark.
sleeping bag flashlight battery

3 This can help you if you are hurt or in danger. storm shelter first-aid kit emergency

4 This can help you if you are thirsty or hungry. flashlight bottled water canned food

5 This can protect you from cold winds. storm shutters canned food sleeping bag



sleeping bag

Use the word emergency in a sentence.



### **Before You Read**

Think

Think Were you ever in an emergency? If so, what was it like?

D Learn N

**Making Inferences** 

Remember, as you read you can make a strong guess about something if you have enough information. This guess is called an **inference**. Use information from the reading plus your own knowledge to make inferences.

Reading Text	The clouds turn very dark.	
My Knowledge	Dark clouds often bring rain.	
My Inference	It's going to rain.	

### Read each paragraph. Then circle the correct inference.

Emma looked out of her living room window. The sky was getting very dark. Suddenly, Emma heard a voice from the television. "This is an emergency," the voice said. "Go to your basement or a room in the center of your house. Stay away from windows."

- a A dangerous storm was coming.
- b All houses have basements.

As David studied at the dining room table, the room started to shake gently. He stopped studying and waited, but the shaking became stronger. He quickly got under the table.

- a David was tired of studying.
- **b** David felt an earthquake.
- (ircle these words. As you read, guess what the words mean.

inland destroyed trunk landfall

Why is it important to stay calm during an emergency?

### PREVIEW

# Staying Calm Before the Storm

In this historical fiction story, Luis and his family prepare to get away from a hurricane. Historical fiction tells a story from the past and often has a real setting, but the characters are usually not real. As you read, make inferences about the characters and events in the story.





# Staying Calm Before the Storm

The state of Quintana Roo in Mexico's Yucatán Peninsula has experienced many hurricanes. Luis Sandoval lived in the capital city of Chetumal when Hurricane Dean hit the coast. He was nine years old.

On August 17, 2007, Luis Sandoval was eating a sandwich after school when the phone rang. It was his father, who worked for the city government in Chetumal.

"Luis, is your mother there?" he asked.

"No, Papa. She went to the supermarket with Pablo and Alex."

"Please listen carefully. Hurricane Dean is moving in our direction. It will reach our coast in three or four days. The government has declared a state of emergency."

Luis's heart started to beat quickly. "Are we in danger, Papa?"

"Not if we prepare. It may be as bad as Hurricane Wilma. Do you remember what we did then?"

"Yes, Papa."

"Then start preparing.
All of you need to leave
Chetumal and go further
inland tomorrow morning.
I will have to stay here."

His father hung up.

Luis remembered Hurricane Wilma very well. A rise in the ocean, called a storm surge, flooded large areas along the coast. Almost 600 millimeters of rain fell in many places. Waves as high as eight meters smashed violently into the third floors of hotels. Winds up to 240 kilometers per hour destroyed homes.

Now the state
of Quintana Roo
was prepared for
Hurricane Dean.
The government was
ready to help people
leave the area. For

Make an inference. How does Luis feel when he hears about the emergency?

Think

those who couldn't leave, there were 530 local storm shelters with food, blankets, and medicine. However, families also had to protect themselves. Luis checked the emergency list in the storage room and gathered the following items:





Luis took out two small backpacks for his little brothers. They contained some clothes and were easy to carry. He took out two large backpacks for his mother and himself. He put some of the food, water, and supplies in each one. The rest of the supplies would go in the trunk of the car.

Suddenly, Luis's mother appeared in the doorway. His little brothers, Pablo and Alex, were holding her hands tightly.

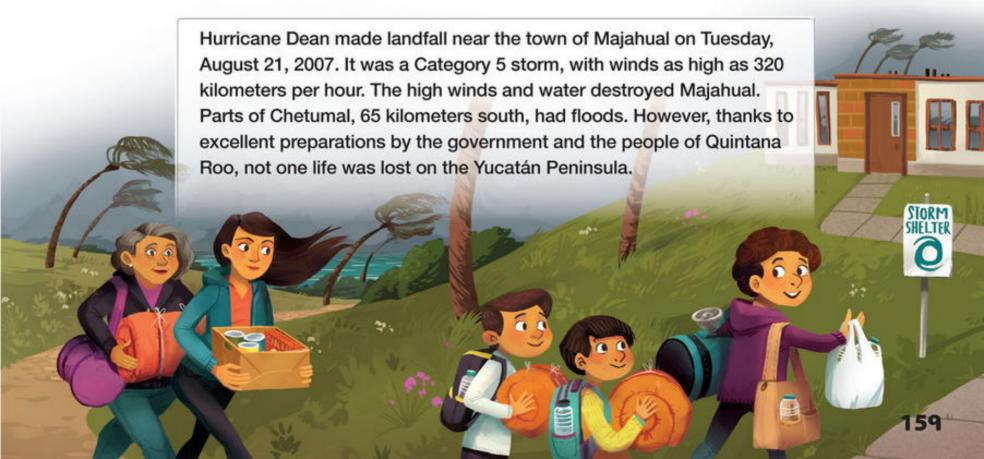
"Your father called me," his mother said.
"I tried to buy food and water, but they turned us away at the supermarket. There were too many people there."

"Don't worry, Mama," said Luis. "I've already packed everything we need." "Good," said his mother. "We have storm shutters, but you and I have to help Aunt Alma put boards over her windows tonight. We'll leave early tomorrow morning."

The next morning, Luis, his mother, his aunt, and his brothers left the city. They

Make an inference. How is Luis different from his younger brothers?

drove many kilometers inland and stayed at a storm shelter. They would be safe from the hurricane there. Luis's father remained in Chetumal, helping those who could not leave the city.



# Understand

### Comprehension



Think How do you think the characters felt in the reading? Would you feel the same way? Why or why not?



- Write each number in the correct place on the chart.
  - 1 They are too young to help.
  - 2 She is strong like her husband.
  - 3 He stays calm even though he is young.
  - 4 She is thankful that Luis's family can help.
  - 5 He knows a lot about hurricanes.

Luis	
Luis's father	
Luis's mother	
Luis's brothers	1
Luis's aunt	

- B Answer the questions.
  - 1 What did the government learn from Hurricane Wilma?
  - 2 What did Luis do to prepare for the storm?
  - 3 Why did Luis's father ask Luis to prepare everything?
- Words in Context Match each sentence to a picture.
  - 1 The cars drove inland, away from the storm.
- 2 The high winds destroyed the old beach house.
- 3 The supplies were in the trunk of the car.
- 4 The hurricane made landfall on the island.











### Grammar in Use

Listen and read along. 🕥 3-25



- Look at D. Are Jay's actions finished? Which action did he finish last?
- Learn Grammar Present Perfect with Already, Just, and Yet You can use the present perfect with the adverbs already, just, and yet. These adverbs tell when something happened or didn't happen. I've already packed everything. I've just eaten dinner. Have you cleaned your room yet? No, I haven't cleaned it yet. already packed just eaten haven't cleaned yet future past present

Complete each sentence with already, just, or yet.

- 1 Has Vince washed the car \_\_\_\_\_? It still looks dirty.
- 2 Don't worry! I've \_\_\_\_\_ packed the clothes. In fact, I did it yesterday.
- 3 Emma has \_\_\_\_\_\_ left for work. She left about a minute ago. I've already Make a chart like the one below. Then talk to eaten dinner. your partner about it. studied grammar finished homework eaten dinner

# Communicate

### Listening

Think How do you know if a storm is coming to your area?

- Listen. Match each force of nature to a safety tip. <a>3</a> 3-26
  - 1 Tornado 

    a Close all windows and doors.

  - 3 Severe storm c Stay indoors and away from windows.
  - 4 Sandstorm d Keep blankets and food in your car.
- B Listen again. Answer the questions. 3 3-27
  - 1 How long will the tornado warning continue?
  - 2 How much snow may fall in Toronto?
  - 3 What may fall down during the severe storm?
  - What should you carry outside during a sandstorm?



### Speaking 1 3-28

Imagine a hurricane is coming. How will you prepare for it? What will you need? Discuss things you will need with your partner.



## **Word Study**



Learn Phrasal Verbs with Turn

Some phrasal verbs begin with the verb turn.

They turned us away at the supermarket.



Listen and read the words. Then read the sentences and circle the correct phrasal verb. 1 3.29

turn on turn back turn in turn up turn over turn down



- 1 When the boys turned over / turned in the rock, they found a sleeping lizard.
- 2 Mr. Garcia's students turn down / turn in their homework at the beginning of class.
- 3 The hikers went up the hill but turned up / turned back when it started to rain.
- 4 Lisa turned up / turned down the music after her parents said it was too loud.
- 5 Sue turned on / turned down her radio to listen to the news.
- 6 Allen turned over / turned up the television because he couldn't hear it well.

## **Writing Study**



Learn Adverbs of Manner

Adverbs of manner tell us how someone or something does an action. They are usually made by adding -ly to an adjective.

The waves were violent. They smashed violently into the hotel. adjective adverb

### Use the underlined words to complete the sentences.

- 1 He's a <u>careless</u> driver. He drives <u>carelessly</u>.
- 2 The trumpet is <u>loud</u>. Jack plays it very \_\_\_\_\_\_.
- 3 The students are very guiet. They do their homework \_
- 4 Tim was very <u>brave</u>. He walked \_\_\_\_\_ up to the front door and knocked.
- 5 Annie's voice is <u>soft</u>. She always speaks \_\_\_\_\_



Now practice writing in the **Workbook**. page 150



### Writing

Read this how-to speech about preparing for an emergency.

### Title

### Preparing Your Car for a Blizzard

**Greeting and** Introduction

Good afternoon, everyone! Imagine that your family is in a car. Suddenly, your dad drives into a terrible blizzard. The car goes off the road. It's dark, it's cold, and you are stuck. How can you prepare for this? Let me explain four easy steps that may save your life someday.

First, always travel with a full tank of gasoline. If you get stuck, stay inside the car. With enough gasoline, you can start your car often to keep you warm.

**Body with** Steps and **Order Words** 

Next, keep food and water in your car. Chocolate, cookies, and nuts can give you energy. Keep a can and matches in your car, too, so you can melt snow for extra water.

Also, keep coats, boots, and sleeping bags in your car. They will help you stay warm. Pack a flashlight and extra batteries so you can see inside the car at night.

Finally, always bring a cell phone so you can call for help. Be sure the phone's battery is always fully charged. On the phone, explain where you are. Road signs can give you important information.

Conclusion

These simple steps can save your life. Think about it. After a blizzard, do you want to build a snowman, or do you want to BE the snowman? Thank you!

# B Answer the questions.

- 1 Why should you pack a flashlight and extra batteries?
- 2 Why should you take a cell phone when you are in a car?

### Learn

### Writing a How-to Speech

- Include a greeting and an introduction that gets your audience's attention.
- Organize your ideas on how to do something into steps. Use these steps in the body of your speech. Use order words, such as first, next, and finally.
- Include a conclusion with a strong, final thought.

### **Speech Tips**

- **1** Greet everyone in your audience.
- 2 Make eye contact with people in the room.
- 3 Speak slowly, clearly, and with energy.
- 4 Thank your audience.



Now go to the Workbook to plan and write your own how-to speech. page 151

# Project: Creating an Emergency Poster

- Create a poster that teaches someone how to prepare for an emergency.
  - In your group, create a poster about preparing for emergencies.
  - Think about the natural forces and emergencies you have learned about.
  - Decide which emergency plan each person will create and what your group will include on your emergency poster.

 Design your emergency poster. Use pictures, drawings, and words.

- Practice explaining your emergency plan and a part of the poster. Write down any words that you want to remember.
- Present your poster and your emergency plans to the class. Make eye contact, use gestures, and speak clearly.

If there is a blizzard, will you be

How should you prepare for a flood? First, be sure you know the quickest and safest way to get to high ground.



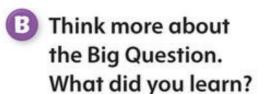
Learn - Prepare - Stay Calm





BIG QUESTION (3)

What can we learn from nature's power? Watch the video.



Complete the **Big Question** Chart.

What did you learn about nature's power?



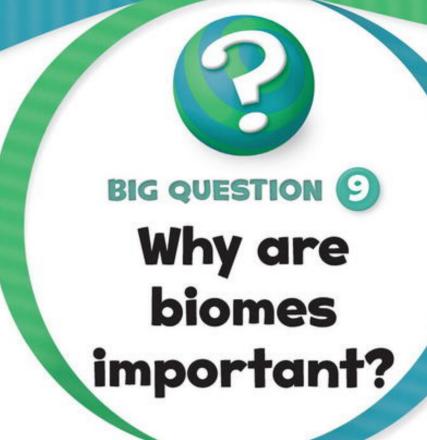
In units 17 and 18 you will:

WATCH a video about biomes. **LEARN**about the importance of Earth's biomes.

**READ**about Earth's biomes and a girl who explores one.







- Match the video.
- B Look at the picture and talk about it.
  - 1 What kinds of life do you see?
  - 2 Where do you think this place is?
- Think and answer the questions.
  - 1 How are parts of Earth different from each other?
  - What types of animals and plants live near you?
- Fill out the Big Question Chart.



What do you know about biomes? What do you want to know?



# **Get Ready**

### Words



Listen and say the words. Then read and listen to the sentences. 13-30



desert biome

grassland

tropical rainforest

temperate forest

taiga

tundra

freshwater

equator

sloth

cactus

- Many plants and animals live in a biome.
- The air in the **desert** is often cool at night.
- **3** The **grassland** is a perfect hiding place for a mouse.
- 4 Scientists have found new medicines in the tropical rainforest.
- 5 The temperate forest is full of colorful leaves in the autumn season.
- 6 The taiga has green trees and white snow in winter.
- Be sure to bring warm boots when you hike in the **tundra**.
- 8 A river or lake is a freshwater biome.
- 9 It is usually warm and wet near the equator.
- 10 The sloth moved through the tree very slowly.
- 11 A cactus doesn't need water every day.



1 It can be very hot near this part of the world. tropical rainforest tundra

2 You can find this in a very dry part of the world. temperate forest desert

This part of the world is usually cold. grassland taiga

Many farmers want to be near this biome. freshwater desert

This place has many trees. temperate forest grassland

Complete the sentences with the following words.

biome cactus equator sloth

A rainforest is a \_\_\_\_\_ near the \_\_ \_\_\_\_\_. It's a good home for a , but it's not a good home for a \_\_\_\_\_

### **Before You Read**

hink Which biomes do you live near? What are they like?

Learn Classify and Categorize

Remember, you can classify and categorize information to help you understand it better. To categorize, gather pieces of information that are the same or almost the same into a group. To classify, give that group a name.

Read the paragraph. Categorize by putting the animals into groups. Animals can go into more than one group.

Ocean and freshwater biomes are home to many kinds of fish. Ocean fish, such as the swordfish and the shark, can be very big. Whales in the ocean can be huge, but they are not fish. Freshwater fish, such as sunfish and freshwater trout, are usually smaller. However, the carp is a freshwater fish that can grow to be quite big.

whale carp swordfish sunfish shark trout

Ocean Animal	Freshwater Animal	Big	Small	Not a Fish

- Now classify. What would be a good group name for goldfish, redfish, and whitefish?
- Words in Context Scan the article on pages 170–171 and circle these words. As you read, guess what the words mean.

Arctic hatches glides scenes

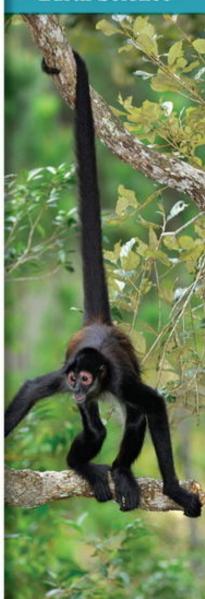
Look at the pictures of biomes on the following two pages. How are the biomes similar and different?

### PREVIEW

## The Natural Communities of Earth

In this informational text, you will read about Earth's biomes and the plants and animals that live together in these places. Remember, informational texts are true and give facts about real things. As you read, try to classify and categorize the information.

### Earth Science



# Read Matural Communities of Earth

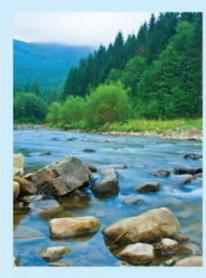
A polar bear hunts for seals in the Arctic winter. A baby eagle hatches from an egg high up in a forest tree. A sidewinder rattlesnake glides across the hot desert sand. What do these three scenes have in common? They are all examples of Earth's unique biomes. A biome is a community of plants and animals that live together in the same area. There are eight major biomes on Earth.

### Aquatic Biomes .....





Oceans cover 75 percent of Earth, and many plants and animals fill this watery biome. Most of this ocean life lives near the surface, where there is sunlight and warm water. Near the coasts, coral reefs are part of this biome. Whales, dolphins, sea turtles, and many kinds of fish occupy the ocean.





Freshwater biomes include rivers and streams, ponds and lakes, and wetlands. Only three percent of all water on our planet is fresh water. Unlike ocean water, fresh water has less than one percent salt. Fish, frogs, and pelicans live in or near freshwater biomes.

### Terrestrial Biomes.....



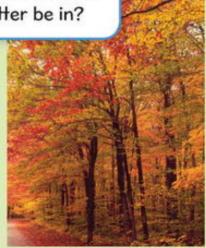


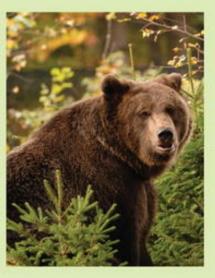
The **tropical rainforest** is a very important biome. Half of all the animal and plant species on Earth live there. Tropical rainforests are near the equator. Over two meters of rain fall there each year. The Amazon rainforest in South America is the largest tropical rainforest. Animals such as jaguars, spider monkeys, and sloths live there. Otters, which live near

> freshwater rivers and streams, are also part of this biome.



What two biomes can the otter be in?





In temperate forests, new leaves grow on the trees in the spring. These leaves stay green until the autumn days arrive. Then they change color and fall to the ground. Squirrels, rabbits, deer, bears, and birds reside here. There are temperate forests in eastern North America, Europe, Russia, China, and Japan.









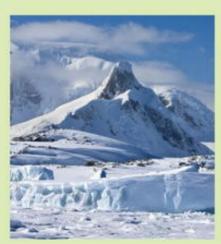


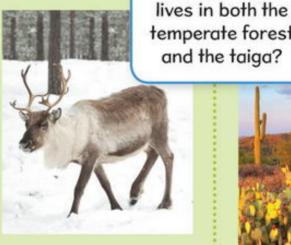
The **taiga** is a forest biome with evergreen trees. It is usually north of temperate forests. Winter days are short and cold, with lots of snow. Summer days are long and warm. Birds, beavers, moose, lynx, foxes, and wolves all dwell in the taiga. Large areas of this biome are in northern Canada and Russia.



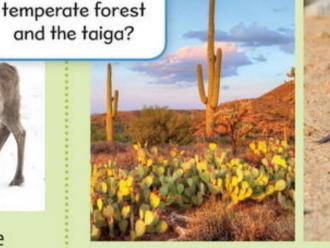


Grasslands cover 25 percent of the land on Earth. They have rich soil and plants with deep roots. There are almost no trees in this biome. Because of this, people have turned many grasslands into farms. In Africa, grasslands are known as savannas. Gazelles, zebras, rhinoceroses, and many other animals roam these savannas.





The **tundra** is always frozen. This biome is north of the taiga. Very little rain falls here, and temperatures in the winter drop below -50 degrees Celsius. In the summer, over 1,700 kinds of small plants grow. Caribou, musk ox, and polar bears all live in this icy area.





The **desert** is the driest biome on Earth. Less than 25 centimeters of rain fall each year. Plants that can live without much water, like the cactus, grow well here. Animals such as snakes and lizards also make their home in deserts.

Together, these eight biomes have provided a safe home for Earth's plants and animals for a very long time. By protecting our planet and its biomes, we can make sure that Earth's plants and animals continue to live in their natural, beautiful homes.

Which animal

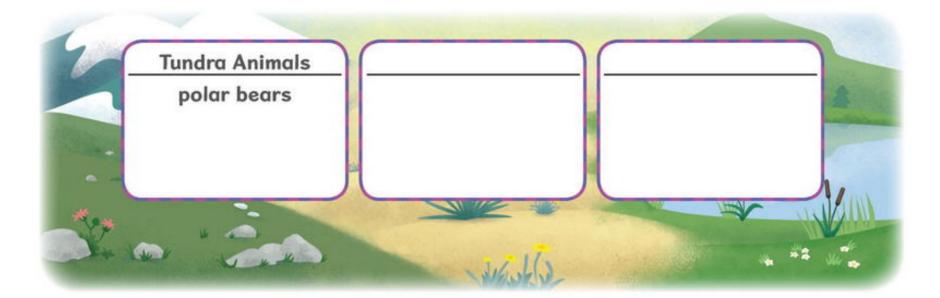
# Understand

### Comprehension

Think Tell your partner which biome you want to visit and three things you want to learn about that biome.

Categorize the following animals into three groups. Classify by naming the groups.

> lizard frog caribou pelican <del>polar bear</del>



- B Circle True (T) or False (F).
  - Fish live in just one biome.
  - 2 The desert gets very little rain.
  - 3 Grasslands make good farms.
  - 4 Fresh water is very salty.
  - The taiga is south of the tundra.
  - Most ocean life lives deep in the ocean.

- Words in Context Match each word to its definition.
  - 1 Arctic
- a what you see in a place
- 2 hatches
- **b** moves smoothly and quietly

- 3 glides

- the very cold land in the most northern part of Earth
- scenes

- **d** comes out of an egg



### Grammar in Use



- Look at D. Which sentences tell about time?
- Learn Grammar Present Perfect with For and Since

Use the present perfect with for and since to show that something began in the past and is still happening now. Use for to talk about an amount of time.

These biomes have provided a home for animals for a long time.

Use since to talk about a specific point of time in the past.

I have studied biomes since February.

### Circle the correct answer.

- 1 My dad has studied mammals for / since twenty years.
- 2 The government has protected this forest for / since 1998.
- The butterflies have traveled to Mexico for / since centuries.
- 4 Scientists have lived in the Arctic for / since last year.

Make a chart like the one below. Then talk to your partner about it.

Action	Since when?	For how long?
go to school	since I was four	for five years

I've gone to school since I was four vears old. I've gone to school for five years.



# Communicate

### Listening

Think Which animals eat only plants? Which animals eat other animals?

⚠ Listen. Write the words to complete the food chains. ◎ 3-33

insects grass-seeds hawks lizards coyotes shrub-seeds snakes quails

Food Chain #1

shrub-seeds

grass-seeds

grass-seeds

- B Listen again. Answer the questions. 🕥 3-34
  - 1 Where do plants get energy from? \_\_\_\_\_
  - 2 What type of bird eats plants? \_\_\_\_\_
  - 3 What type of bird eats animals? \_\_\_\_\_

### Speaking 1 3-35

What happens through the seasons? Talk about the changes.



### **Word Study**



### Learn Words with -tch

The consonant combination tch sounds very similar to the **ch** sound, as in **chair**.

A baby eagle hatches from an egg high up in a forest tree.



Listen and read the words. Then write a sentence with each word in your notebook. 3 3.36

stitch batch itch scratch patch catch



# **Writing Study**



### Learn Complex Sentences with Until

Use until to connect two actions. The first action stops when the second action starts.

The cheetah ran until it caught the gazelle.

first action

second action

Circle the word until in each sentence. Underline the first action once. Underline the second action twice.

- 1 The scientist stayed in the desert (until) he ran out of food.
- 2 Rainforests will continue to disappear until we protect them.
- **3** The polar bear hunted for seals until it caught one.
- 4 Grizzly bears were in danger until people made a law against hunting them.



Now practice writing in the Workbook. page 161

Vocabulary: Words with -tch • Writing: Complex Sentences with Until Unit 17 175





Each biome is different and interesting.

> There are unique plants and animals in each biome.





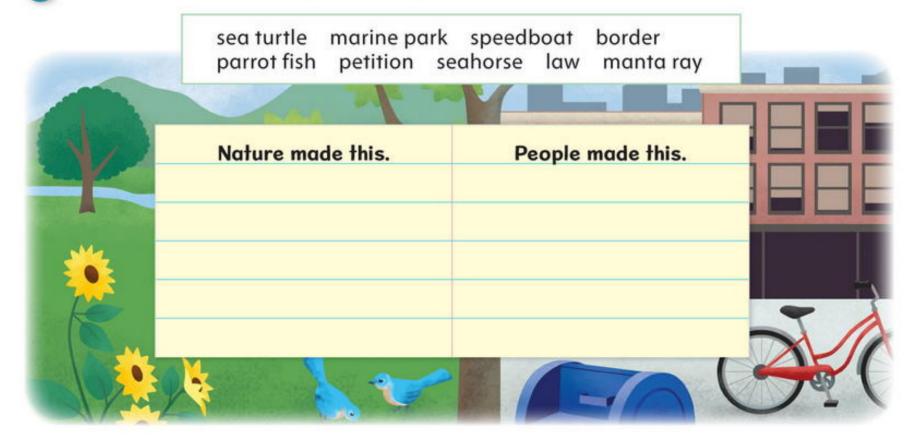
# **Get Ready**

### Words

A Listen and read the words. Listen again and say the words. 🕥 3-37



B Write the words in the correct boxes.



- Answer the questions. Share your ideas with your partner.
  - 1 What things in nature astonish you?
  - 2 Would you like to snorkel? Why or why not?

### **Before You Read**



Think What places in your country are naturally beautiful? What can people see in these places?

## **Learn** Asking Open-ended Questions

Open-ended questions cannot be answered with yes or no. These questions ask for deeper answers and can help you understand a reading better. Open-ended questions often ask about your feelings and begin with why, how, who, or what.

<b>Open-ended Question</b>	<b>Closed-ended Question</b>
Why should people protect coral reefs?	Do coral reefs live in water?

Read the paragraph. Write open-ended questions about something you want to know more about.



Andrew snorkeled among the coral reefs every day of his vacation in Hawaii. He loved to watch the colorful fish there. He lost his goggles on the second day, so he had to buy new ones. One afternoon. Andrew saw a sea turtle in the water. He swam with the turtle until his father called to him from the beach. It was a very exciting day.

1	Vhy did Andrew want to snorkel among the coral reets?
2	
3	

Words in Context Scan the story on pages 178–179 and circle these words. As you read, guess what they mean.

manage invited signed difference

Why should people protect Earth and keep it clean? Which parts of Earth do you want to protect? Why?

### PREVIEW

# Camila's **Journey**

In this realistic fiction story, a girl named Camila visits a very special place and has a life-changing experience. Remember. realistic fiction has characters. problems, and settings that seem real. As you read, ask yourself openended questions.



# Read (Camila's Journey

Camila lived in Belize City on the coast of Belize in Central America. Her father worked for the government's fisheries department, and he helped to manage the seven marine parks off the coast of the country. One day, Camila's father invited her to visit one of the parks with him.

"I'm going to Glover's Reef this weekend," he explained. "Would you like to join me?"

"Of course!" she said.

During their flight to the coastal town of Dangriga, Camila's father explained that Glover's Reef was on the edge of the Belize Barrier Reef, one of the largest coral reef systems in the world. Hundreds of fish and coral species lived in these reefs. He said that many coral reefs around the world were dying from pollution and overfishing.

From Dangriga, Camila and her father took a two-hour boat ride to Glover's Reef. Camila's excitement grew as they neared a small island with its beautiful coastline and turquoise water.

"We'll snorkel through the park tomorrow," her father said.

The next morning, Camila and her father put on their goggles and entered the blue waters of the park. The beauty and variety of the underwater world astonished Camila. Hundreds of butterfly fish, parrot fish, and seahorses darted around her.

She watched sea turtles and manta rays glide among the rainbow-colored coral. Camila saw how the plants and animals of the reef lived together perfectly. She took many pictures with her father's underwater camera. It was the most exciting experience of her life.

Ask yourself an open-ended question about Camila's experience.





# Understand

## Comprehension



Think Would you do the same thing as Camila? Why or why not? Tell your partner your answer and reasons.



- Match each open-ended question to two possible answers.
  - How did Camila feel about the coral reef when she first saw it?
  - 2 How did Camila feel about the boat and
  - 3 Why did Camila start a petition to help the planet's coral reefs?

the people on it?

- a She felt it was beautiful and exciting.
- **b** She wanted to protect them.
- **c** She wanted to ask for people's help.
- **d** She was very angry and upset.
- e She was astonished by its variety of life.
- She didn't like what the people did.
- B) How did Camila help the world's coral reefs?
- Words in Context Circle the best ending to each sentence.
  - 1 Camila's father helped to manage the seven marine parks,
    - a so he told others what to do to keep the parks clean and safe.
    - **b** so he went fishing in the parks every weekend.
  - 2 When Camila's father invited her to go with him to the marine park,
    - a he told her that she had to go with him.
    - **b** he asked her if she wanted to go with him.
  - **3** When 20,000 people <u>signed</u> Camila's petition,
    - a they made a sign to put up in their school.
    - **b** they put their names on the petition to show that they agreed.
  - 4 When Camila's father said that Camila made a difference, it meant that
    - a she changed something and made it better.
    - **b** she could see how each coral reef was different.





## Grammar in Use

D Listen and sing along. Speedboat, Speedboat 🕥 3.39

Speedboat, speedboat,

You raced around the reef today.

You scared the parrot fish at play!

We've written a petition - stay away!

Speedboat, speedboat,

You raced across the reef today.

You chased around a manta ray!

We've signed a new law - stay away!



- Read the sentences. Which one tells when the action happened?
  - a You raced across the reef today. b We've written a petition.
- Learn Grammar Present Perfect and Simple Past

Use the **present perfect** for past experiences, past actions that continue to the present, or actions that happened at an unspecific time.

Camila has created a petition. (We don't know when she did it.)

Use the **simple** past for completed actions that happened at a specific time.

When she got home, Camila created a petition. (We know when she did it.)

### Circle the correct answer.

- I read / have read this article about biomes.
- 2 They snorkeled / have snorkeled this morning.
- 3 He went / has gone to the Arctic last year.
- 4 The explorer saw / has seen a manta ray before.

Make a chart like below. Talk about it with your partner.

Action I have done	When I did it
run in a race	last summer

I have run in a race. I ran in a race last summer.



# Communicate

## Listening

Think Which biome would you like to live in? Why?

Listen. Match each name to a biome and a reason. 🕥 3-40

#### **Biome** Name Reason a tropical rainforest 1 Ricardo e see animals and hear birds 2 Sophie **b** tundra **f** see the leaves change color 3 Toru temperate forest g sail around the world h take pictures of mountains 4 Brigitte **d** ocean

Listen again. Then answer the questions. 🕥 3-41

Ricardo Sophie Toru Brigitte

- 1 Who would like to see squirrels and rabbits? \_\_\_\_\_
- 2 Who would like to catch fresh fish to eat? \_\_\_\_\_
- 3 Who would like to live with native people? \_\_\_\_\_
- 4 Who would like to make friends with polar bears and seals? \_\_\_



Speaking 1 3-42

Learn Asking About Needs

Use the verb **need** to ask about things that a person must have. The verb need can be followed by the word for (+ noun) or to (+ verb).

What do I need for my trip? What do you need to wear? What does she need to prepare?

Imagine you are taking a trip to a biome with your partner. Discuss what you will need.



## **Word Study**



Learn Words with the Suffixes -ent and -ence.

Some adjectives end in the suffix -ent. Often, these adjectives have a similar noun form that ends in the suffix -ence.

Camila looked at the different kinds of fish in the coral reef. Camila made a big difference when she created the petition.



Listen and read the words. Circle the suffixes. Then write A for adjective or N for noun below each word. 1 3-43

intelligent) absence independent absent independence intelligence



# **Writing Study**



Learn Complex Sentences with Since and Because

Use since and because to connect two actions. The action after since or because is the reason for the other action. Since or because can come at the beginning or in the middle of the sentence.

Since coral reefs are dying, we have to help them.

Because coral reefs are dying, we have to help them.

I want to live in the taiga since I like cool weather.

I want to live in the taiga because I like cool weather.

Circle the action that is the reason in each sentence. Underline the other action.

- 1 Since rainforests have many plants and animals, we must keep them safe.
- 2 Jason went to the marine park because his father works there.
- Because the oceans are getting warmer, some coral reefs are dying.
- 4 Emma is going to the tundra since she wants to study the animal life there.



le Now practice writing in the Workbook. page 169





## Writing

Read this fictional story about a boy who lives in the tundra.

Title

The First Catch

Setting

Dialogue

Nanuq ate breakfast and got dressed. Outside the igloo, his father was packing the sled. Icy ground surrounded them for miles.

"We'll go to the water," his father said. "There are many fish there."

"How far is it, Father?" asked Nanuq.

"Maybe two miles, but don't worry. The sun will keep us warm."

Nanua followed his father to the water. He watched his father dig a hole in the ice and wait. Many minutes passed. Then, his father pointed at the hole.

A large fish swam toward the hole. Very quietly, Nanua's father held his spear and waited. Suddenly, he threw the spear forward and pulled out a large fish.

"You did it!" shouted Nanuq.

Nanua's father gave him his spear. "Now it's your turn," he said.

Conflict

Nanua was excited. He held the spear above the water and waited impatiently. When a fish appeared, he quickly threw the spear forward. He frowned as the fish swam away.

"Be patient," whispered his father. "You will know when it is time."

Solution

Ending

Nanua watched a fish come near the hole. He waited a moment and then threw his spear forward. His father smiled as Nanuq pulled a huge fish out of the water.

Nanua held the fish proudly. He would never forget this day!

## Answer the questions.

- 1 How would you describe the setting in this story?
- 2 How does Nanuq change by the end of the story?

#### Learn **Fictional Story**

- In the beginning, describe the setting to the reader. Use details to make the setting seem like a real place.
- Create interesting characters that use natural dialogue.
- Add a conflict, a solution, and an interesting ending.



Now go to the Workbook to plan and write your own fictional story. page 170

## Project: Acting in a Play

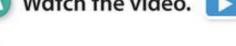
- Create a play about a family that moves to a new biome. Then act it out.
  - In your group, discuss the biomes you have learned about. You will create a play about moving to a new biome.
  - Imagine that your group is a family that will move to a new biome.
  - Decide which biome you will move to, who will play each part, what each person will say, and how each person will act.
- Practice your play with your group and try to memorize most of what you will say.
- Write down any important words or phrases that you want to remember.
- Perform the play in front of the class.
   Act naturally, speak clearly, and have fun!





important?

A Watch the video.



- B Think more about the Big Question. What did you learn?
- Complete the Big Question Chart.

What did you learn about biomes?





### Definitions based on the Oxford Basic American Dictionary for Learners of English.



absence noun a time when a person or thing is not there

absent adj. not there

advertising noun the activity or business of telling people about things to buy

agriculture noun keeping animals and growing plants for food

antiques noun old things that are worth a lot of money

archaeologist noun a person who studies the past by looking at objects or parts of buildings that are found in the ground

architecture noun the design or style of a building or buildings

Arctic noun the very cold land and countries in the most northern part of the world

armor noun metal clothes that people wore long ago to cover their bodies when they were fighting

army noun a large group of soldiers who fight on land in a war

arrogance noun A person who has arrogance thinks that he or she is better and more important than other people.

arrogant adj. A person who is arrogant thinks that he or she is better and more important than other people.

arteries noun the tubes in your body that carry blood away from your heart to other parts of your body

ash noun the gray powder that is left after something has completely burned

assistant noun a person who helps someone in a more important position

asteroid noun any of the many small, rocky bodies that go around the sun

astonish verb to surprise someone very much

astronomer noun a person who studies or knows a lot about the sun, moon, planets, and stars



bacteria noun very small things that live in air, water, earth, plants, and animals. Some bacteria can make us sick.

banned adj. not allowed, or not allowed to happen

bark noun the hard surface of a tree

batch noun a group of things

batik noun (1) a way of printing patterns on cloth using wax on the parts that will not have any color (2) a piece of cloth printed in this way

batteries noun things that give electricity. You put batteries inside things like toys, radios, and cars to make them work.

battle noun a fight between armies in a war

beautiful adj. very pretty or attractive

biome noun all the plants and animals that live in a particular place, for example in a forest or desert

blizzard noun a very bad storm with snow and strong winds

blog noun a personal record that someone puts on their website saying what they do every day and what they think about things

blood noun the red liquid inside your body

bodies noun objects, such as those in space or on Earth. Moons and planets are bodies in space.

bodyguard noun a person or group of people whose job is to keep an important person safe

border noun a line along the edge of something

bottled water noun water that is sold in a bottle

brief adj. short or quick

brilliant adj. with a lot of light; very bright

broadcast verb to send out sound or pictures by radio or television

butter noun a soft yellow food that is made from milk. You put it on bread or use it in cooking.



cactus noun a plant with a lot of sharp points, which grows in hot, dry places

canal noun a path that is made through the land and filled with water so that boats can travel on it

canned food noun food that is kept in a can

canvas noun a strong, heavy cloth used for making bags, tents, and sails, or for painting pictures on

capillaries noun the smallest tubes in the body that carry blood

carbon dioxide noun a gas that has no color or smell that people and animals breathe out

carpenter noun a person whose job is to make things from wood

cartoonist noun a person who draws cartoons

cash noun money in coins and bills

castle noun a large, old building that was built in the past to keep people safe from attack

catch verb to take and hold something that is moving

ceiling noun the top part of the inside of a room

cell noun the smallest part of any living thing. All plants and animals are made up of cells.

cement noun a gray powder that becomes hard like stone when you mix it with water and leave it to dry.

century noun a period of 100 years

chemicals noun solid or liquid substances that scientists study and use

cinema noun (1) a movie theater (2) movies in general

cinnamon noun a brown powder that is used to give flavor to sweet foods

citizens noun people who belong to a country or a city

city council noun a group of people who make the laws of a city and help to govern it

city hall noun the government of a city and the offices it uses

clay noun a kind of heavy earth that becomes hard when it is dry

coax verb to persuade someone to do something by talking to them in a calm and gentle way

coffin noun a box that a dead person's body is put in

collapse verb to fall down suddenly

combines verb joins; mixes two or more things together

comet noun a mass of ice and dust that moves around the sun and looks like a bright star with a tail

commerce noun the business of buying and selling things

common cold noun an illness of the nose and throat. When you have a cold, you often cannot breathe through your nose and your throat hurts.

complex adj. difficult to understand because it has a lot of different parts

concentrate verb to give all your attention to something

congested adj. so full of something that nothing can move

contest noun a game or competition that people try to win

contrast noun a difference between things that you can see clearly

convenient adj. (1) useful, easy, or quick to do; not causing problems (2) near a place or easy to get to

conversation noun a talk between two or more people

core noun the central part of an object

corner noun a place where two lines, walls, or roads meet

corporate farm noun a large farm that is owned and run by a company

countless adj. very many

craters noun large holes in the ground, caused by something large hitting them

cyclist noun a person who rides a bicycle as a sport



dead adj. not alive now

decide verb to choose something after thinking about the possibilities

decrease verb to become smaller or less, or to make something smaller or less

dentist noun a person whose job is to take care of your teeth

desert noun a large, dry area of land with very few plants

destroyed verb broke something completely so that you cannot use it again

determine verb to discover the facts about something

diameter noun a straight line across a circle, through the center

diaphragm noun the muscle between your lungs and your stomach that helps you to breathe

dictionary noun a book that gives words from A to Z and explains what each word means

difference noun the way that people or things are not the same, or the way that someone or something has changed

dinosaur noun a big wild animal that lived a very long time ago

disability noun a physical or mental condition that means you cannot use a part of your body completely or easily, or that you cannot learn easily

discover verb to find or learn something for the first time

discuss verb to talk or write about something in a serious way

disease noun an illness of the body in humans, animals, or plants

dishonest adj. A person who is dishonest says things that are not true, steals, or cheats.

disk noun a round, flat object

disorganized adj. badly planned; not put in order

disprove verb to show that something is not true

dissatisfied adj. not pleased with something

distance noun how far it is from one place to another place

distrust verb to believe that you are not able to trust someone or something

donated verb gave something, especially money, to people who need it

drab adj. dull and not interesting or attractive

dream noun (1) something nice that you hope for (2) pictures or events that happen in your mind when you are asleep

dreary adj. dull, boring, or depressing

drop back phrasal verb to move into a position behind someone else, because you are moving more slowly

drop by phrasal verb to visit someone who does not know that you are coming

drop off phrasal verb (drop someone off) to stop your car so that someone can get out; (drop something off) to deliver something, often on the way to somewhere else

drop out phrasal verb to leave or stop doing something before you have finished

duplicate verb to make an exact copy of something

dwelled verb lived or stayed in a place

### E

earthquake noun a sudden, strong shaking of the ground

editor noun a person whose job is to prepare or control a book or a newspaper before it is printed

eighty adj. 80

emergency noun a sudden, dangerous situation, when people need help quickly

emperor noun a man who rules a group of countries (called an empire)

entire adj. whole or complete

environment noun (1) [the environment] the air, water, land, animals, and plants around us (2) the conditions in which you live, work, etc.

equator noun the line on maps around the middle of the world. Countries near the equator are very hot.

equipment noun special things that you need for doing something

estimate verb to say how much you think something will cost, how big something is, or how long it will take to do something

exaggerate verb to say that something seems bigger, better, worse, etc., than it really is

examine verb to look carefully at something or someone

excavate verb to dig in the ground to look for old objects or buildings that have been buried for a long time

exhale verb to let air out of your body by breathing

exhibition noun an object or a group of objects that are arranged in a museum or another place so that people can look

exotic fruits noun fruits that seem strange or interesting because they are grown in other countries

expand verb to become bigger or to make something bigger

explore verb to travel around a new place to learn about it

export verb to sell things to another country

fair adj. treating people in an equal way or in the right way

famous adj. known by many people

farmer's market noun a place where farmers sell food directly to other people

fascination noun the state of being very attracted to and interested in someone or something

favorite adi. Your favorite person or thing is the one that you like more than any other.

first-aid kit noun a set of medical equipment that you use to help someone who is hurt before a doctor comes

flashlight noun a small electric light that you can carry

flood noun When there is a flood, a lot of water covers the land.

florist noun a person who owns or works in a store that sells flowers

fluid noun a substance that can flow; a liquid

food label noun information on the outside of a box, can, or bag that tells you about the food inside it

force noun power or strength

fragrance noun a nice smell

fragrant adj. having a nice smell

frame noun a thin piece of wood or metal around the edge of a picture, painting, window, mirror, etc.

freight noun things that trucks, ships, trains, and airplanes carry from one place to another

freshwater adj. not salty; not from the ocean

funnel noun a tube that is wide at the top to help you pour things into bottles



galaxy noun a very large group of stars and planets

garbage collectors noun people whose job is to take away the garbage from outside other people's homes

gather verb to bring together things that are in different places

generals noun very important officers in the army

geography noun the study of the earth and everything on it, such as mountains, rivers, land, and people

gifted adj. very intelligent, or having a strong natural ability

glides verb moves smoothly and quietly

graduate verb to successfully complete a high school, college, or university degree

grassland noun a large area of open land covered with wild grass

gravity noun the force that pulls everything toward the earth

grief noun great sadness, especially because of the death of someone you love

grocery stores noun stores that sell food and other small things for the home

### Н

haggle verb to argue with someone until you agree about the price of something

haircut noun (1) when someone cuts your hair (2) the way that your hair is cut

hatches verb When a baby bird, insect, or fish hatches, it comes out of an egg.

headline noun the words in big letters at the top of a newspaper story

heart noun the part of the body that makes the blood go around inside

hero noun a person who has done something brave or good

horizontally adv. in a way that goes from side to side, not up and down

huge adj. very big

hurricane noun a storm with very strong winds



**ignorance** *noun* lack of knowledge or information about something

**ignorant** *adj*. not knowing about something

**ignore** *verb* to know about someone or something, but to not do anything about it

immense adj. very big

**immune** *adj*. If you are immune to a disease, you cannot get it.

**independence** *noun* being free from another person, thing, or country

**independent** *adj.* not controlled by another person, thing, or country

infect verb to give a disease to someone

influenza noun an illness like a very bad cold that makes your body sore and hot

ingredients noun the things that you use when you make something to eat

**inhale** *verb* to take air into your body by breathing

**inland** *adj*. in or toward the middle of a country

**inner** *adj.* inside; toward or close to the center

intelligence noun the ability to think, learn, and understand quickly and well

intelligent adj. able to think, learn, and understand quickly and well

interview noun a meeting when someone asks you questions about a subject

introduce verb (1) to tell an audience the name of the person who is going to speak, perform, entertain, etc. (2) to make somebody begin to learn about something or do something for the first time

introduction noun (1) the act of telling two or more people each other's names for the first time (2) the first part of a book or a talk which gives an explanation of the rest of it

investigate verb to try to find out about something **invited** *verb* asked someone to come to a party, to your house, etc.

itch noun the feeling on your skin that makes you want to rub or scratch it



jade noun a hard, green stone that is used for making jewelry

**journalist** *noun* a person whose job is to collect and report news for newspapers, television, etc.



**kneel** *verb* to bend your legs and rest on one or both of your knees

**knight** *noun* a soldier of a high level who rode a horse and fought for his king a long time ago

knit verb to make clothes from thick cotton or wool thread (called yarn) using special, long needles

**knot** *noun* a place where you have tied two pieces of rope, string, etc. together

**knowledge** *noun* what you know and understand about something

**knuckle** *noun* one of the parts where your fingers bend or where they join your hand



landfall noun (1) an arrival on land (2) the contact of a hurricane with a landmass

landscape noun everything you can see in an area of land

landslide noun a sudden fall of earth, rocks, etc., down the side of a mountain

latest adj. the newest or most recent

law noun (1) a rule of a country that says what people may or may not do (2) all the rules of a country

layer noun something flat that lies on another thing or that is between other things

leopard noun a wild animal like a big cat with yellow fur and dark spots. Leopards live in Africa and southern Asia. live adj. to be or stay alive

local adj. describing a place near you

**lungs** *noun* the two parts inside your body that you use for breathing

### M

magazine noun a kind of thin book with a paper cover that you can buy every week or every month. It has a lot of different stories and pictures inside.

major adj. very large, important, or serious

manage verb (1) to be in charge of someone or something (2) to do something that is difficult

mansion noun a very big house

manta ray noun a large, wide, flat fish with a long tail that lives in warm oceans

marine park noun an area of water that is protected by the government so that the animals and plants that live there can be safe from humans

mass media noun organizations, such as newspapers, television, and radio, that give information and news to large numbers of people

matter noun all physical substances, or a substance of a particular kind

mayor noun the leader of a group of people who control a city or town (called a council)

members *noun* people who are in a group

meteorite noun a piece of rock from space that hits the earth's surface

microscope noun a piece of equipment with special glass in it that makes very small things look much bigger

mistake noun something that you think or do that is wrong

moon noun (1) the big object that shines in the sky at night (2) an object like Earth's moon that moves around another planet

mucus noun a sticky substance that is produced in some parts of the body, especially the nose

navigate verb to use a map or some other method to find which way a ship or other vehicle should go

news conference noun a meeting where a famous or important person answers questions from news reporters

newspaper noun large pieces of paper with news, advertisements, and other things printed on them

newsreels noun short films of news that were shown in movie theaters in the past

niece noun the daughter of your brother or sister



observatory noun a building where scientists can watch the stars, the weather, etc., using special instruments

orbit noun the path of a planet or an object that is moving around another thing in space

organic food noun food that is grown or made in a natural way, without using chemicals

outer adj. on the outside; far from the center



package verb to wrap something or put something into a box before it is sold or sent somewhere

paintbrushes noun brushes that you use for painting

pale adj. with a light color; not strong or dark

paleontologist noun a person who studies very old, dead animals or plants as fossils

paralyze verb to make a person unable to move all or part of their body

parrot fish noun a type of fish with bright colors that lives in warm oceans. A parrot fish has a jaw that looks like a bird's beak.

pastels noun (1) soft colored chalk, used for drawing pictures (2) colors that are pale and not strong

pastime noun something that you like doing when you are not working

patch noun a small piece of something that is not the same as the other parts

peasant noun a poor person who lives in the country and works on a small piece of land

peel verb to take the skin off a fruit or vegetable

perspective noun the way of drawing that makes some objects seem farther away than others

petition noun a special letter from a group of people that asks for something

photographer noun a person who takes photographs, especially as a job

pianist noun a person who plays the piano

piece noun (1) a part of something (2) one single thing (3) a single work of art, music, etc.

plantation noun a piece of land where things like tea, cotton, or rubber grow

playground noun an outdoor area where children can play, especially at a school or in a park

port noun a city or town by the ocean, where ships arrive and leave

power lines noun thick wires that carry electricity

president noun (1) the leader of the country in many countries of the world (2) the person with the highest position in an organization or a company

pretty adj. nice to look at

printing press noun a machine that is used for printing books, newspapers, etc.

process verb to treat something, for example with chemicals, in order to keep it, change it, etc.

prodigy noun a person (especially a child) who is unusually good at something

publisher noun a person or company that prepares books, magazines, etc., to be printed and sold

pulse noun the beating of your heart that you feel in different parts of your body, especially in your wrist

pumps verb forces a gas or a liquid to go in a particular direction

### R

radio station noun a company that broadcasts programs on the radio or on television

raindrop noun one drop of rain

ravine noun a small, deep, narrow valley

reins noun long, thin pieces of leather that a horse wears on its head so that the person riding it can control it

relief noun the good feeling you have when you are no longer worried or in pain

reporter noun a person who writes for a newspaper or speaks on the radio or television about things that have happened

rescue worker noun a person whose job is to save people from danger

ribbon noun a long, thin piece of material for tying things or making something look pretty

rickshaw noun a small, light vehicle with two wheels mostly used in some Asian countries to carry passengers. A rickshaw is pulled by someone walking or riding a bicycle.



scenes noun (1) places where something happened (2) parts of a play or movie (3) what you see in a place

scrape noun an injury or a mark caused by rubbing against something rough

scratch verb (1) to move your nails across your skin (2) to cut or make a mark on something with a sharp thing

sculptor noun a person who makes shapes from materials like stone, clay, or wood

seahorse noun a small ocean fish that swims in a vertical position and has a head that looks like the head of a horse search verb to look carefully because you are trying to find someone or something

sea turtle noun a large animal with a hard, round shell on its back that lives in the ocean

sedimentary rock noun a type of rock formed from sand, stones, mud, etc., that settles at the bottom of lakes or other bodies of water

shading noun the use of color, pencil lines, etc., to create light and dark areas of a drawing or painting so it looks real

shapes noun what you see if you draw a line around different things; the forms of things

shrimp noun a small animal with a soft shell and a lot of legs that lives in the ocean. It turns pink when you cook it.

shrink verb to become smaller or to make something smaller

signed verb wrote your name in your own way on something

sketch noun a picture that you draw quickly

skull noun the bones in the head of a person or an animal

sleeping bag noun a big, warm bag that you sleep in when you go camping

sleigh noun a large vehicle with pieces of metal or wood instead of wheels that you sit in to move over snow. A sleigh is usually pulled by animals.

sloth noun a South American animal that lives in trees and moves very slowly

smartphone noun a cell phone that is able to do some of the things a computer can do

snorkel verb to swim underwater with a short tube that a person can use to breathe through

snowfall noun the snow that falls on one occasion, or the amount of snow that falls in a place

social network noun a website that allows you to connect with friends, family, and people who share your interests

solar system noun the sun and the planets that move around it

soldiers noun people in an army

souvenirs noun things that you keep to remember a place or a special event

space noun (1) a place that is big enough for someone or something to go into or onto (2) an empty place between things (3) the area outside Earth's atmosphere where all the other planets and stars are

spacecraft noun a vehicle that travels in space

space probe noun a spacecraft without people that collects information and sends it back to Earth

special adj. not usual or ordinary; important for a reason

speck noun a very small spot, mark, or piece of something

speech noun a talk that you give to a group of people

speechless adj. not able to speak, for example because you are shocked or very angry

speedboat noun a small, fast boat with an engine

spoil verb to become bad to eat or drink

squeezes verb (1) presses something hard (2) goes into a small space; pushes too much into a small space

stained verb left a dirty mark, which is difficult to remove, on something

stars noun the small, bright lights that you see in the sky at night

steamship noun a ship driven by steam

stitch verb to use a needle and thread to repair, join, or decorate pieces of cloth

storm shelter noun a place that protects people or animals from bad weather

storm shutters noun wooden or metal things that cover the outside of a window to protect it from bad weather

street painter noun a person who draws pictures on streets or sidewalks, usually with chalk

street vendor noun a person who sells things on a sidewalk or street, especially in a city

string noun very thin rope that you use for tying things

sugar cane noun a tall tropical plant with thick stems that sugar is made from

suit noun a set of clothing worn for a particular activity

supplies noun things that people need, such as food, medicine, or fuel

surface noun (1) the outside part of something (2) the top of water

swallowed verb made food or drink move down your throat from your mouth

system noun a group of things or parts that work together

taiga noun a forest that grows in wet ground in far northern parts of Earth

take after phrasal verb (take after someone) to be or look like an older member of your family

take apart phrasal verb (take something apart) to separate something into the different parts it is made of

take down phrasal verb (take something down) (1) to remove a structure by separating it into the pieces it is made of (2) to write something that someone says

take in phrasal verb (take something in) to understand what you see, hear, or

take over phrasal verb to get control of something or responsibility for something

take up phrasal verb (take up something) to use or fill time or space

talented adj. having a natural ability to do something well

teamwork noun the ability of people to work together

telescope noun a long, round piece of equipment with special glass inside it. You look through it to make things that are far away appear bigger.

temperate forest noun a forest in a part of the world that is not very hot and not very cold

terrible adj. very bad

texture noun the way that something feels when you touch it

thief noun a person who steals something

three-dimensional adj. having length, width, and height

thunderstorm noun a storm with a lot of rain, thunder, and flashes of light (called lightning) in the sky

tomb noun a place that is often underground where a dead person's body is buried

tornado noun a violent storm with a very strong wind that blows in a circle

tourist noun a person who visits a place on vacation

trachea noun the tube in your throat that carries air to the lungs

treasure noun a collection of gold, silver, jewelry, or other things that are worth a lot of money

tripped verb hit your foot against something so that you fell or almost fell

tropical rainforest noun a forest in a hot part of the world where there is a lot of rain

trunk noun the part at the back of a car where you can put bags and boxes

tsunami noun a very large wave in the ocean, usually caused by the sudden strong shaking of the ground (called an earthquake)

tubes noun (1) long, thin pipes for liquid or gas (2) long, thin, soft containers with a hole and a covering (called a cap) at one end

tuna noun a large fish that lives in the ocean and that you can eat

tundra noun the large, flat, Arctic regions of northern Europe, Asia, and North America where no trees grow and where the soil below the surface of the ground is always frozen

turn back phrasal verb to return the same way that you came

turn down phrasal verb (turn something down) (1) to say "no" to what someone wants to do or to give you (2) to make something produce less sound or heat by moving a switch

turn in phrasal verb (turn something in) to give your work to a teacher

turn on phrasal verb (turn something on) to move the handle or switch that controls something so that it starts

turn over phrasal verb to move so that the other side is on top; to move something in this way

turn up phrasal verb (turn something up) to make something produce more sound or heat by moving a switch



uniform noun a special type of clothing that some people in the same job, team, etc., wear

unique adj. not like anyone or anything

universe noun (the universe) Earth and all the stars, planets, and everything else in space

unusual adj. If something is unusual, it does not often happen or you do not often see it.



vanilla noun a substance from a plant that gives a taste to some sweet foods

varnish noun a clear paint with no color, which you put on something to make it shine

vast adj. very big

veil noun a piece of material that a woman puts over her head and face

veins noun the small tubes in your body that carry blood to the heart

vertically adv. in a way that goes straight up and down, not side to side

victim noun a person or thing that is hurt, damaged, or killed by someone or something

virus noun a living thing that is too small to see but can make you sick

volunteer noun a person who says that he or she will do a job without being forced or without being paid



washable adj. Something that is washable can be washed without being damaged.

(the) Web noun the system that makes it possible for you to see information from all over the world on your computer

website noun a place on the Internet that you can look at to find out information about something

weigh verb (1) to measure how heavy someone or something is using a machine (2) to have or show a certain weight

wheat noun a type of grain that can be made into flour

whole adj. complete; with no parts missing

whole food noun food that is considered healthy because it is in a simple form and does not contain any chemicals

worries verb feels that something bad will happen or has happened



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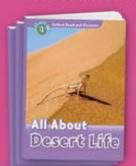
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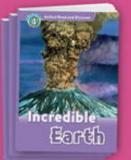


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