

Use Prior Knowledge

Stone

You are going to read an informational text called Secrets of the Ancient World. Look at the picture of stone statues on Easter Island in Chile.

- A Piscuss the questions.
 - 1. What objects are made from stone? Make a list.
 - 2. What is a statue? Describe.
 - 3. What statues have you seen? Are there any statues near you?
 - 4. How do you think people carved statues in the past? How do they carve statues today?



Build Background

World Wonders

The Wonders of the World include natural wonders and human-made wonders. Natural wonders are formed by nature. Human-made wonders are made by people.

- A Discuss the questions.
 - 1. Are the pyramid and the statue from the past or the present?
 - 2. Are these natural or human-made wonders? Explain.



The Great Pyramid of Giza and the Sphinx are made from stone.

Reading Strategy

Make Inferences

When you make an inference, you make a guess about something. You use clues in a text and your own experience to figure something out.

You can use these phrases to make inferences:

Maybe it / they . . . I think that they may / might . . .

Try Out the Strategy

A \ Look at the photo and caption of the Great Pyramid on page 46. How was it built? Complete a chart.

facts from photo or caption	what I know	what I infer

B Explain how you think the pyramid was built. Use your notes from the chart.



C \ Use your best ideas from Activity B. Write sentences about how you think the pyramid was built.

The photo shows me that the Great Pyramid of Giza . . .

I know that the pyramid . . .

I think that the pyramid was built . . .

Vocabulary in Context



The author of the text Secrets of the Ancient World includes these words. Which words do you already know?

structure

People built structures from stone. They built homes, buildings, and walls.



mystery

Scientists do not know why these trees are bent. It is a mystery.



weigh

The fruit weighs less than five kilograms.



archeologist

An <mark>archeologist</mark> studies the past.



column

These columns are very tall.



position

The red balloon is in a different position.



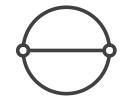
sphere

Earth is a round, solid



diameter

Diameter is the distance from one side of a circle to the other, going through the center.



symbol

A checkmark is a symbol that means "correct."



Use the Vocabulary

A Answer the questions.

1. Which story title do you think is a mystery? Explain.

A Summer Without My Phone
Will the Snow Ever Stop Falling?
The Secret of the Lost Mountain

- 2. How do people use columns?
- **3.** What is the **archeologist** in the photo on page 48 doing?
- B Work with a group. Find these things in your classroom. Write sentences. Use the key words.

a sphere something with a diameter
a symbol something that weighs about a kilogram
a structure something that is in the wrong position

This paper plate has a diameter of 20 centimeters.

Develop Vocabulary

Multiple-meaning Words

SENTENCE STARTERS

• People use columns to . . .

• The archeologist in the

is a mystery

I think that the story

because . . .

photo is . . .

Some words have more than one meaning. Use the context to help you. The context is the other words in the sentence.

- A Read these sentences from Secrets of the Ancient World. Choose the correct meaning of the underlined words.
 - 1. People <u>moved</u> the rocks more than 5,000 years ago.
 - a. went to a different place to live
 - **b.** caused something to go from one place to another
 - c. sold something
 - 2. People also <u>call</u> this structure the Rajajil Columns or the Standing Men.
 - a. speak in a loud voice
 - **b.** give a name to something
 - c. make a phone call

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CONNECT TO -> Spelling and Word Study



Sh Sounds

ti, si, ci

A

Listen to the words. Repeat.

The letters **ti**, **si**, and **ci** make the **sh** sound. They are often followed by *-on* or *-an*.







eruption

television

musician

B •) Listen. Point to the letters that make the sh sound.

station

explosion

electri<mark>ci</mark>an

- Choose the letters that make the sh sound. Then listen, check, and repeat.
 - **1.** mansion
 - 2. competition
 - 3. delicious
 - **4.** attention
 - 5. mathematician
 - 6. division



Read. Find the words that make the sh sound. Then listen and complete the chart.

My mother is a mathematician. She wants to give me a good math education. She is teaching me multiplication and division. She says it's a special time. It's better than watching television!

ti = sh	si = sh	ci = sh



Write a sentence for each picture. Use the words.







1. train station

2. mansion

3. delicious

F 🄽 Tell a story. Use words with ti, si, and ci that make the sh sound.

One day, I heard an <u>explosion</u>.

It was an <u>eruption</u> from a volcano.

I paid <u>attention</u> to the news.

I planned to follow <u>directions</u>.

The reporter said . . .

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Reading

TEXT GENRE Informational Text

The text Secrets of the Ancient World is an informational text. An informational text gives true information and explains something.

Reading

When you read Secrets of the Ancient World, you will find:

- facts, including numbers
- explanations

Preview

Preview the text. Look at the title, the headings, and the photos.

- 1. What places are you going to learn about?
- 2. Which one looks the most interesting to you?
- **3. Predict** How did people build these structures?

What can we learn from ancient structures?

SECRETS OF THE ANCIENT WORLD

by Kathryn O'Dell



any wonders of the world are natural, like the Grand Canyon and Victoria Falls. Nature made these incredible places over time. People also made incredible structures in the past. Today, people all over the world travel to see ancient wonders. We know a lot about these places, but there are also mysteries about them.

CHECK IN

- 1. Main idea How are ancient wonders made? Name two ways.
- 2. Make inferences Why do people travel to see ancient wonders?

GLOSSARY ancient very old

Picture It

Three school buses weigh 40 tons (36 metric tons).



A three-story building is about 30 feet (9 meters) tall.



Stonehenge

Stonehenge is a circle of huge rocks in England. People moved the rocks more than 5,000 years ago. Some of the rocks weigh over 40 **tons** (36 metric tons) each and stand about 30 feet (9 meters) tall. The tops of the rocks are flat. Some rocks are on top of others.

Archeologists learned many things about Stonehenge, but there are still mysteries. They know the stones came from about 15 miles (24 kilometers) away. Some think that people rolled the heavy stones on large tree trunks. Others believe people brought the stones to the area on a nearby river.



Archeologists aren't sure why people made
Stonehenge, but they have some ideas. They observed
that the Sun rises over the top of one of the rocks
on the longest day of the year. The Sun sets on the
opposite side of the rocks on the shortest day. Some
archeologists think that farmers used the structures to
know when to plant crops. Other archeologists think
that the structure was a place to celebrate the Sun.

Over the years, some of the rocks have fallen down.

But today, most of the rocks are still standing.

CHECK IN

- **1. Retell** What do archeologists know about Stonehenge?
- **2. Make inferences**Why do you
 think people visit
 Stonehenge?

GLOSSARY ton one ton = 2,000 pounds

Reading





study closely to find facts

Example

I will research stone structures to write a paper for my history class.

A **legend** says that the stones were a group of lost people who turned to stone. Archeologists think people put the stones in this place to see the position of the stars and planets. They think the stones line up with the sunrise and sunset. Other scientists think travelers used the stones. These scientists think the stones marked a spot near a **trade route** people used in the past.

There is still a lot to learn about the Standing Stones. Archeologists have been researching Stonehenge for hundreds of years. However, they have only been studying the Standing Stones for about 50 years.

CHECK IN

- 1. Compare and contrast How are the Standing Stones like Stonehenge?
- 2. Use the map What two kinds of trade routes are on the map? How does the map connect to the text?

GLOSSARY

KEY

---- land route

water route

legend a story from the past that often is not true **trade route** a path people use to exchange things

Picture It

Two adult elephants and one baby elephant weigh about 16 tons (14.5 metric tons).



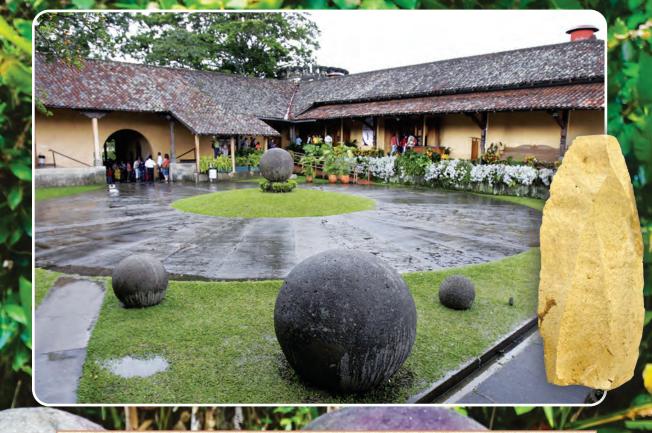
This famous basketball player is 7 feet (2 meters) tall.



The Stone Spheres of Costa Rica

People found over 300 stone spheres in the jungle in Costa Rica. The smallest spheres are a few inches around. The biggest spheres are about 7 feet (2 meters) in diameter and weigh 16 tons (14.5 metric tons). People made the spheres between 500 and 1,300 years ago.

They made the spheres from rocks in the mountains. In the 1930s, people found these spheres far away from the mountains. Archeologists don't know how or why people moved them.



Some people wonder how the spheres were made. It seems mysterious. However, archeologists say people made the spheres with stone tools. They also think people used fire. They used the heat to remove parts of rock

to form spheres. Some of the spheres are perfect, but others aren't.

Archeologists have different ideas about why people made the stones. Some think they were a symbol of power. The villages with the most and the roundest spheres had more power. Others think they were symbols of the Sun and Moon.

Today, people can see some of the stones at museums in Costa Rica.

CHECK IN

- 1. Visualize What objects are about the same size as the smallest stone spheres?
- 2. Comprehension How do archeologists think people made the spheres?

58 UNIT 2 Secrets of the Ancient World UNIT 2 Secrets of the Ancient World



Apply the Reading Strategy

Make Inferences









- How did people make each wonder from Secrets of the Ancient World? Discuss with a classmate.
- B Use a chart to make inferences. List at least one fact for each ancient wonder from the reading. Then, write what you know based on the facts and what you can infer.

facts from photo or text	what I know	what I infer
The rocks at Stonehenge weigh 36 metric tons each.	People can't move heavy rocks by themselves.	People probably made tools to move the rocks.

- Tell a classmate about the inferences in your chart.
- Write a sentence for each ancient wonder using the notes from your chart.

Maybe they used . . . They might have used . . . They probably . . .

Discuss the Reading

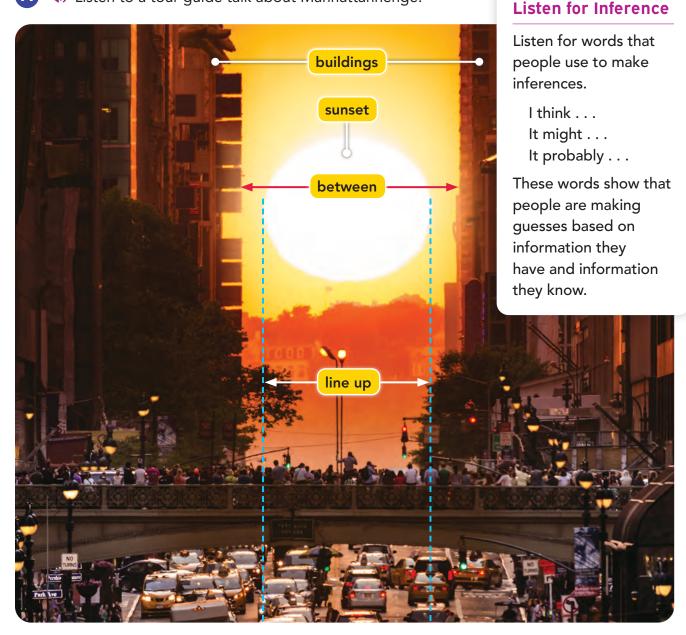
- A 🏖 Discuss the questions.
 - 1. Revisit your prediction Before the reading, you predicted how people built the structures. In what ways were your predictions correct? In what ways were they wrong?
 - 2. Recall details What is the legend about the Standing Stones?
 - 3. Describe How is Stonehenge like a calendar?
 - **4. Infer** Why did people make stone spheres in Costa Rica?
 - 5. Use text features What facts does the text give about the rice terraces in the past?
 - 6. Evaluate What do all of the ancient wonders in the text have in common?
 - 7. Respond to the essential question What can we learn from ancient structures?



CONNECT TO Oral Language

A Guided Tour

A 🕩 Listen to a tour guide talk about Manhattanhenge.



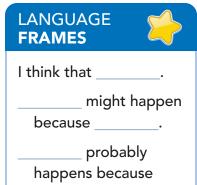
LISTENINGSTRATEGY

- B N Listen again. Write the words Dora uses to make inferences.
 - 1. I ____ the Sun is setting between the buildings.
 - 2. It ____ happen two times a year.

Oral Language

Make Inferences

- A Describe the photo of Manhattanhenge. Where is it? What do you see? What's happening? Use the information you see and what you know to give facts and make inferences.
- B Describe this photo of the Northern Lights. Use the text and what you know to give facts and make inferences.





The Northern Lights are bright colors in the sky. They happen when particles come from the Sun and hit the atmosphere.

The lights in the sky are green and bright. I think these are . . .

I think that this place is Norway because . . .

The lights might happen because . . .

The lights probably happen because . . .

CULTURE NOTE

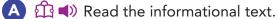
The best place to see the Northern Lights is near the North and South poles.
Norway, Sweden, and Iceland are good places to see the Northern Lights. Would you like to see the Northern Lights? Why or why not?

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Grammar in Action





An Amazing Waterfall

ictoria Falls is a beautiful waterfall between Zambia and Zimbabwe in southern Africa. It is one of the Natural Wonders of the World. It's the largest waterfall in the world. Everyone who comes to Victoria Falls is amazed by the beauty.

The Zambezi River moves peacefully over the plains of Africa. The water approaches high cliffs. Then, it drops 355 feet (108 meters) over the cliffs into the gorge below. The power of the falling water created this gorge over thousands of years.

The **crashing** water makes a loud noise that sounds like thunder when it hits the rocks below. It also creates a fine mist. The mist looks white at the bottom of the falls, but it looks like dark smoke at the top. People can see the mist and hear the sound from very far away. They call the falls Kololo because it means "the smoke that thunders." The mist causes rainbows during the day when the Sun shines through it. It creates moonbows at night.

Archeologists found stone tools near the falls. They think someone used the tools over two million years ago. Today, visitors around the world visit the falls. Nothing is more exciting than seeing the falls up close.

B Use the vocabulary

- 1. What happens after the water approaches the cliff?
- 2. What does the **crashing** water sound like?
- **3.** How is the **mist** different at the top and the bottom of the falls?
- **4.** What can you infer about how a moonbow is formed?



Indefinite Pronouns

Use indefinite pronouns when the noun is not known or is not important. Some indefinite pronouns start with some-, every-, and no- and end with -one or -thing.

	-one	-thing	meaning
some-	someone	something	one unknown person or thing
every-	everyone	everything	all unknown people or things
no-	no one	nothing	no known people or things

- A Reread An Amazing Waterfall. Identify three indefinite pronouns.
- Choose the correct indefinite pronoun to complete each sentence.
 - 1. I want to take a photo by the waterfall, but (someone / no one) is in the way.
 - 2. (Everything / Everyone) loves Victoria Falls because they are so beautiful.
 - 3. (Nothing / Something) looks like smoke at the top of the falls.
 - 4. We wanted to ride in a helicopter, but (no one / everything) had enough money.
 - **5.** (Something / Nothing) is more exciting than a vacation to the mountains.
- Complete the sentence: Nothing is more exciting than a vacation to . . .





Grammar in Action

A PROPERTY Read the informational text.

THE LONGEST WALL

he Great Wall of China is the world's longest structure made by people. It is more than 4,000 miles (6,400 kilometers) long! The wall goes from west to east along the northern border of China.

The Great Wall was made up of many smaller walls in the past. Rulers of small areas in ancient China built these walls. Over 2,000 years ago, Emperor Qin Shi Huang united these areas. He wanted one long wall. More than one million people built new parts to connect the walls. The long wall protected the country.

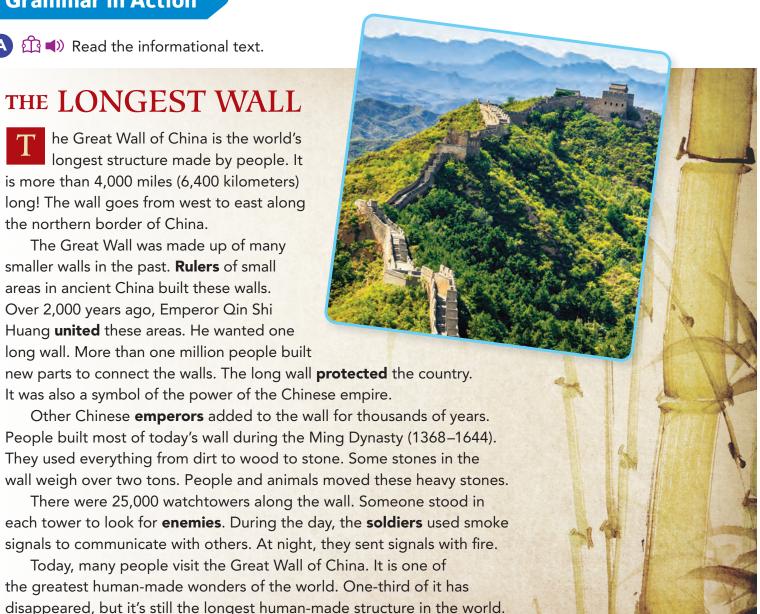
Other Chinese emperors added to the wall for thousands of years. People built most of today's wall during the Ming Dynasty (1368–1644). They used everything from dirt to wood to stone. Some stones in the wall weigh over two tons. People and animals moved these heavy stones.

There were 25,000 watchtowers along the wall. Someone stood in each tower to look for enemies. During the day, the soldiers used smoke signals to communicate with others. At night, they sent signals with fire.

Today, many people visit the Great Wall of China. It is one of the greatest human-made wonders of the world. One-third of it has disappeared, but it's still the longest human-made structure in the world.

Use the vocabulary

- 1. Who was Qin Shi Huang? What did he do?
- 2. What did the new wall **protect**? How?
- **3.** Who stood in the watchtowers? What did they do?



GRAMMAR

Simple Past Tense of Irregular Verbs

Most regular simple past tense verbs end in -ed, for example: wanted, protected, added.

Irregular simple past tense verbs do not end in -ed. There are no rules to make the simple past with irregular verbs. You can study them.

> Nature made these incredible places over time.

People **found** over 300 stone spheres in the jungle in Costa Rica.

simple past tense of some irregular verbs		
build	\rightarrow	built
eat	\rightarrow	ate
find	\rightarrow	found
go	\rightarrow	went
have	\rightarrow	had
make	\rightarrow	made
see	\rightarrow	saw
send	\rightarrow	sent
stand	\rightarrow	stood
take	\rightarrow	took

Rewrite the paragraph with the simple past tense of the verbs. Some are regular and some are irregular.

My family and I _ (see) the Great Wall of China last year. (go) in the summer and ____ (walk) along the wall for five (take) a lot of pictures. My sister and I _____ miles. L (climb) a (stand) at the top. We $_$ (have) a great time! watchtower and

- Think about a past event. Describe it to your classmate. Use simple past tense verbs.
- Write a short paragraph about your past event. Use the simple past tense and include at least three irregular verbs.

I went to my aunt's house in the city last week. I took the bus with my sister. We made bread together. Then, we made cheese sandwiches. We ate them for lunch.

68 UNIT 2

CONNECT TO -> Language Arts

Informational Text

A ∰ ■ Read the informational text.

Wondrous Pyramids

yramids are interesting structures. They are in different parts of the world. The Great Pyramid of Giza and the Pyramid of Kukulkan are two of the world's most famous pyramids.

The Great Pyramid of Giza

There are three pyramids at Giza in Egypt. They're more than 4,500 years old. The largest one is the Great Pyramid of Giza. When you see pictures of the Great Pyramid, you understand why it is a wonder. It is 479 feet (146 meters) high, and each side is 754 feet (230 meters) long. It can be seen from very far away. More than two million stone blocks were used to build the Great Pyramid. Each block weighs as much as a large car. King Khufu hired his nephew to be in charge of building the pyramid. Archeologists found letters, reports, and receipts to explain payment, materials, and other things, too. However, they still aren't sure how workers moved such large stones to make the pyramid.

The Pyramid of Kukulkan

From the years 800 to 1200, Chichen Itza was a busy city in Mexico. The Mayan people built many roads, buildings, and pyramids in the area. The Pyramid of Kukulkan, also called El Castillo, is their most famous one. It is 98 feet (30 meters) high with steps on four sides. Visitors could climb the stairs in the past, but today they can't. This rule is to protect the pyramid. Each side of the pyramid has 91 steps, and there is one large step at the top. El Castillo has 365 steps in total, one for each day of the year. The Mayan people used the pyramid like a calendar in many ways. Archeologists think the Maya built El Castillo on top of a smaller pyramid.



B Talk about it

- 1. What are the names of the two famous pyramids? What countries are they in?
- 2. Which pyramid is taller? Which one is newer?
- 3. What mystery is still unknown about the pyramid in Giza?
- 4. How are the two pyramids similar and different?

ESSENTIAL QUESTION

How can pyramids be similar and different?

TEXT GENRE InformationalText:Description

You can compare and contrast two descriptive texts.



TEXT ELEMENTS

Interpret a Timeline

In an informational text, a timeline supports the text. It can also give additional information. A timeline shows the **sequence** of important **events** in history.

2589 BCE	2560 BCE	2520 BCE	2490 BCE
King Khufu is in power.	The Great Pyramio of Giza is built. King Khufu's power ends.	d A second pyramid at Giza is built by Khufu's son.	A third pyramid at Giza is built.
750 CE	900 CE	1050 CE	1200 CE

- Look at the timeline. Which events are also in the text? Which events on the timeline are new information?
- B Answer the questions using the timeline.
 - 1. How many pyramids were built when King Khufu was in power?
 - 2. Who built the second pyramid at Giza?
 - 3. Which is older—the Pyramid of Kukulkan or the Temple of the Warriors?
 - 4. When did the Maya leave Chichen Itza?
- Create a timeline of your life with at least five important events. Write the dates and the events in order.

CULTURE NOTE

Most pyramids are ancient, but some are modern. The Louvre Pyramid in Paris, France, is made of glass and metal. Since 2006, the Palace of Peace and Reconciliation in Astana, Kazakhstan, has been used as an opera house, history museum, and library. Which pyramids are found where you live?

70 UNIT 2

CONNECT TO -> Language Arts

Tools for Writing

Compound and Complex Sentences

A compound sentence joins two independent clauses with a conjunction.

Each clause has a subject and a verb and expresses a complete thought.

It is 479 feet (146 meters) high, and each side is 754 feet (230 meters) long.

Some common conjunctions are:

but and

A complex sentence has an independent clause and a dependent clause.

Each clause has a subject and a verb, but only the independent clause expresses a complete thought. The dependent clause can come first or second. When the dependent clause comes first, use a comma.

When you see pictures of the Great Pyramid, you understand why it is a wonder.

You understand why the Great Pyramid is a wonder when you see pictures of it.

Common words in dependent clauses are:

although because

- Read the sentences. Identify the compound sentences. Identify the complex sentences.
 - 1. When I visited El Castillo last year, I learned a lot about the pyramid.
 - 2. We could take a tour, or we could see the pyramid without a guide.
 - 3. We got a guide because we wanted to learn as much as possible.
 - **4.** We couldn't climb the steps, but we could get close to the pyramid.
- Choose the correct words.
 - 1. The Great Sphinx of Giza is a statue, (and / because) it's near the Great Pyramid.
 - 2. (Or / Although) it has a lion's body, its head is human.
 - 3. It is strange, (but / when) it's beautiful.
 - 4. I was amazed (when / but) I saw it!
 - 5. You have to see it (and / if) you go to Egypt.





although and but if so

The Temple of the Warriors is a large pyramid in Chichen Itza. There are 200 columns on the south side of the pyramid, they are round or square. In the past, there was a roof over the columns, _____ now there isn't one. The columns symbolize soldiers or warriors, _____ we know they were important in the area in the past. _____ the Temple of the Warriors is larger than El Castillo, El Castillo is more famous. go to Chichen Itza, you should see both places.



WORD STUDY

Homophones

Homophones are words that are pronounced the same but spelled differently. They also have different meanings.

one / wuhn / = the number 1 The largest **one** is the Great Pyramid of Giza. won / wuhn / = the past tense of win My sister **won** the race.

Find these homophones in Wondrous Pyramids.

two to too four for their there they're

Complete the sentences with a homophone from the box.

to too two their there they're

CommonHomophones

there, they're, their to, too, two for, four

- 1. The Maya people built pyramids, and the Egyptians did, Mayan pyramids: Nohoch Mul and El Castillo. 2. I compared ____
- **3.** We drove _____ see the pyramids on our vacation.
- is a large step on top of El Castillo.
- **5.** Which pyramids did you read about? Do you remember _____ . names?
- **6.** Visitors can't climb the steps. not allowed.

A Natural Wonder

A ♠ Read the informational text.

Hello Hoodoos!

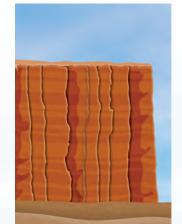
hoodoo is a natural column of rock. The columns are tall and thin. Some are the size of a human, and others are up to 10 stories tall. There are famous hoodoos in Bryce Canyon National Park in the United States.

These hoodoos formed over millions of years. Weathering is the process of breaking something into smaller pieces. It causes erosion. Wind erodes the rock. The wind breaks down the rocks and carries the pieces away. Acid rain also wears down the rocks. The biggest factor is frost wedging. In the winter, snow melts, and the water goes into cracks in the rocks. It freezes and expands. It makes the cracks bigger. Large pieces of rock fall off. Through wind, acid rain, and frost wedging, the hoodoos form over time.

Hoodoos are also called earth pyramids and tent rocks because of their shapes. A legend says that long ago a group of people drank all of the water and ate all the food in the area. They were turned into stone as punishment. If you look at the hoodoos today, they look like people!

ESSENTIAL QUESTION

How do some natural rock structures form?









C Discuss What can you infer will happen to the hoodoos after more time passes?

B Use the vocabulary Look at the pictures and describe how hoodoos form.

Making connections Are there any large rocks or rock formations in your area? Where? What do they look like?

CULTURE NOTE

In Cappadocia, Turkey, "fairy chimneys" started to form millions of years ago from volcanic eruptions. They are shaped like tall mushrooms. Some of the fairy chimneys were hollowed out to build houses. Would you like to live in a fairy chimney? Why or why not?

CONNECT TO -> Social Studies ()



Human-made Wonders

A ♠ Read the informational text.

Modern Wonders

any human-made modern wonders are landmarks. Landmarks are structures that are easy to see and recognize.

The Burj Khalifa is a **skyscraper** in Dubai. Dubai is in the United Arab Emirates. The skyscraper is over 2,700 feet (820 meters) high. This skyscraper opened in 2010. More than 12,000 people from around the world built it in six years. The building looks like a spider lily. A spider lily is a flower that grows in the desert. Visitors to the Burj can visit restaurants, stores, and hotels. There is even an aquarium!

The Grand Canyon Skywalk in Arizona is 10 feet (3 meters) wide and 70 feet (21 meters) long. Visitors walk on the glass floor. When they look down, they see the Grand Canyon 4,000 feet (1,200 meters) below! **Construction** began in 2004, and the Skywalk opened in 2007. The Skywalk gives visitors a chance to feel like an eagle flying over the canyon.

Mitad del Mundo is near Quito, Ecuador. Mitad del Mundo means "middle of the world." The equator passes through here. The equator is an imaginary line. It divides the Northern Hemisphere from the Southern Hemisphere. There is a painted line that shows where the equator is. Visitors can put one foot in the Northern Hemisphere and one foot in the Southern Hemisphere.

CULTURE NOTE

A skyscraper is a building that is at least 150 meters high. China has the most skyscrapers in the world—more than 2,700 buildings. The United States has more than 850 skyscrapers, and the United Arab Emirates has more than 300 skyscrapers.

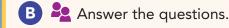
ESSENTIAL QUESTION

Why do people enjoy human-made wonders?

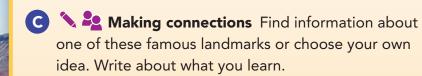
the Buri

Khalifa

Mitad del Mundo



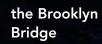
- 1. Where is each landmark?
- 2. What can people do at each landmark?
- 3. Which landmark seems most interesting to you? Why?



The Brooklyn Bridge is in New York, NY.

It connects . . .





the Eiffel Tower

the Soumaya



CONNECT TO Mathematics

Use Decimal Place Value

A ♠ Read about decimal place value.

ESSENTIAL QUESTION

How can you use place value to understand the size and meaning of numbers?

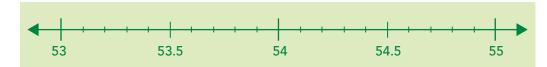
Place Value

The place of a **digit** in a number determines its **value**. Place value helps you to determine the size of a number. A **decimal** shows a part of a whole number. A **decimal point** goes between the whole number and the decimal part.

tens	ones	tenths	hundredths	thousandths
5	6	8	9	7

word form	fifty-six and eight hundred ninety-seven thousandths
standard form	56.897
expanded form	$5 \times 10 + 6 \times 1 + 8 \times \frac{1}{10} + 9 \times \frac{1}{100} + 7 \times \frac{1}{1,000}$

You can use a **number line** to compare decimals. A number line shows numbers in order from least to greatest. The decimals with the smaller values are on the left. The value of the decimals increases as you move to the right.



You can use **greater than** (>) and **less than** (<) symbols to compare numbers.

- B Word form and expanded form Write each number in word form and expanded form.
 - **1.** 27.64
 - **2.** 86.531
 - **3.** 92.45
- C Compare numbers Use the greater than (>) or less than (<) symbols to complete the expressions.

1.	76.32		75.30
----	-------	--	-------

- 4.06 **2.** 4.60
- 123.9 **3.** 123
- 0.075 **4.** 0.57
- **5.** 50.51 51.50
- **D** № Making connections Imagine that you find five mysterious spheres in the forest. You want to arrange them from lightest to heaviest. Look at the weight of each sphere. Arrange the spheres A-E on a number line.

sphere	weight (in kilos)
Α	7.98
В	8.89
С	8.51
D	7.20
E	7.60



CONNECT TO → Music ☐

CONNECT TO -> Art

Listen and Sing

A I) Listen to the song. Then sing the song.

the

Around Wonders of the World

Row, row, row your boat, Row it down the Nile. Visiting, visiting, visiting, visiting The pyramids in style.

Walking down the garden paths, You see the Taj Mahal. Shining, shimmering, gleaming, glimmering, So bright and white and tall.

Hiking through the jungle You reach an awesome spot. Beautiful statues, trees, and towers, The temple Angkor Wat.

Climb, climb, climb the trail, Almost reach the sky. Look beyond the mountains' path, At Machu Picchu so high.

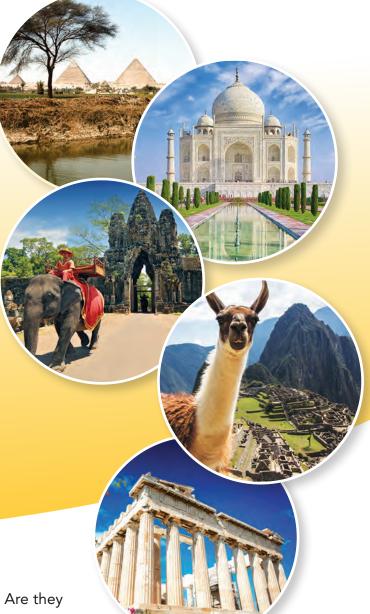
Rising, rising from the ground, The Parthenon is pretty. Its marble columns look strong and grand, Over Athens city.

- Answer the questions.
 - 1. What five wonders is the song about? Are they natural or human-made wonders?
 - 2. Which wonder has towers? Which ones have columns?
- C Making connections Which of the five wonders in the song would you like to see the most? Why?

ESSENTIAL QUESTION

What can you learn from a song?





Drawing with Perspective

ESSENTIAL QUESTION

How can we make drawings of objects look real?

A ∰ ■ Read the informational text.

How to Draw a Bridge

hree-dimensional shapes, like buildings and bridges, have length, width, and depth. When artists paint or draw an image, they try to make shapes look three-dimensional on a flat surface. The flat surface, like paper, only has two dimensions: length and width.

To make a shape look **three-dimensional** on a flat sheet of paper, artists often use **perspective**. Here's how to do it:

- 1. Put an imaginary horizon (A) at some place on the page. The horizon is where Earth meets the sky.
- 2. Choose a point on the horizon as a vanishing point (B).
- 3. Draw straight lines (C) that begin at the bottom of the page and move to the horizon. At the vanishing point, all of the lines meet. This makes it look like the objects on the page are getting farther away.

A photo of the Golden Gate Bridge in

San Francisco shows a good example of how to use perspective. Based on the **point of view** in this photograph, there is one vanishing point. It is found where the lines connect at the end of the bridge.

- **B** Draw a picture of a bridge.
 - 1. Choose a famous bridge or make up your own.
 - 2. Follow steps 1, 2, and 3 in the reading to draw the main part of the bridge (the part cars drive across).
 - 3. You can add legs to your bridge. You can also add water, land, and sky.
- C Making connections Exchange your picture with a classmate. Does the bridge look three-dimensional?



80 UNIT 2



Informational Writing

Write an Informational Text

Remember that an **informational text** gives true information and explains something. It includes:

- an introduction
- facts, including numbers
- explanations
- a conclusion

WRITING STRATEGY Writing About History

Write notes about facts and dates. You can use a timeline to organize your writing.

Write an informational text about one of these places or your own idea.

- natural: Iguazu Falls, the Grand Canyon, the Northern Lights, your own idea
- human-made: Machu Picchu, the Taj Mahal, the Parthenon, your own idea

Student Model

Angkor Wat by Thu Nguyen

Angkor Wat is in Cambodia. It is in the jungle. It has a tower in the center, and there are four smaller towers around it. The main tower is 213 feet (65 meters) tall.

Suryavarman II was the king of Khmer. He started

building Angkor Wat in 1113 CE. Workers finished it 37 years later. It was difficult to build because it was made of both hard stone and soft stone. The soft stones were 18 miles (29 kilometers) away, so people transported them using boats on the rivers. Artists carved the soft stones. They created amazing sculptures.

Archeologists aren't sure what Angkor Wat was for. Some think it was for the king's ashes. Others think that people studied the stars from the towers.

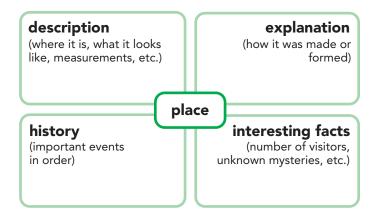
People hid paintings in the temple during this time. In 2010, someone found 200 hidden paintings in the walls at Angkor Wat.

Over 2.5 million people visit Angkor Wat each year. There are rules for visitors. The rules help preserve the towers. It is important to preserve special places.



Plan

• Use a chart to plan your informational text.



Draft

- Use the ideas from your chart to write a draft. Make sure your draft includes:
 - → an introduction and a conclusion
 - → facts, including numbers
 - → explanations
 - → dates of important events

Revise

- A Use the revision checklist to review your draft.
- B Exchange drafts with a classmate. Give each other suggestions for making your drafts better.
- C Revise your draft.

Revision Checklist

- ☐ Linclude facts.
- ☐ I explain how it was made or formed.
- ☐ I use the simple past tense for past events.☐ I include dates.
- ☐ I include an introduction and a conclusion.

Edit

Use the editing checklist to edit your draft.

Editing Checklist

- ☐ I use the simple past tense correctly, including irregular verbs.
- ☐ I use indefinite pronouns correctly.
- ☐ I use compound and complex sentences.

UNIT 2 UNIT 2

CONNECT TO -> Writing

CONNECT TO Media





- A Rewrite a final copy of your informational text in your best handwriting. You can also use the computer to type your final copy.
- Draw one or more pictures, or include photos, to illustrate your informational text. You can also include a timeline.
- Work with a classmate. Read your informational texts aloud to each other. Be sure to read with appropriate expression.
- D Talk about each other's writing. Tell your classmate:
- → what you like best about their informational text
- → what could be improved



BIG Idea

We can learn about the past from many places in the world.

What are some places you learned about? What did they tell you about the past? Tell about a place you know that can



The Egyptian Pyramids

VIEWING STRATEGY Make Inferences

When there is no dialogue in a video, you can make inferences, or guesses, about what is happening.



Before Viewing

This video is a story about an archeologist and his camel. Discuss the questions.

- 1. Why are camels good animals to live in the desert?
- 2. What do you know about ancient Egypt?
- 3. What famous ancient structures are in Egypt?
- **4.** What is an archeologist's job?

During Viewing

- Watch the video. Look for answers to these questions.
- 1. What does the archeologist discover?
- 2. What is beneath the pyramid?
- 3. How does the archeologist get trapped inside?

After Viewing

- Answer the questions.
- 1. There are hieroglyphics on the ancient remote control. Can you infer the meaning of the hieroglyphics?
- 2. Why do you think the archeologist went inside the structure?
- 3. What do you think happened to the archeologist inside the structure?

USEFUL VOCABULARY



beneath

brush

camel

desert

discover hieroglyphics

ladder

pyramids

remote control

the Sphinx