

# Reading. 1DVENTURES

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Carmella Lieske • Scott Menking

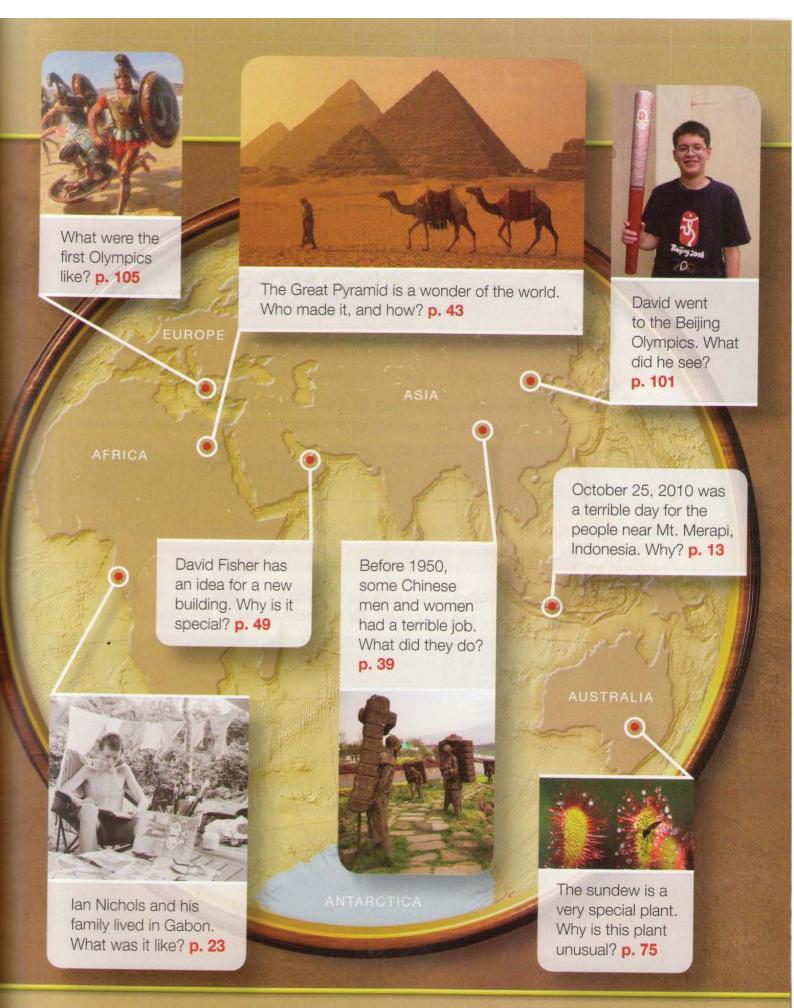


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# Get Ready for an Adventure!



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#### Scope and Sequence

6

Scope and Sequence

Unit	Theme	Lesson
1	Volcanoes	A: Mountains of Fire B: Journey to the Center of the Earth
2	Families	A: My Family B: Animal Families
Review 1	Kilimanjaro	Kilimanjaro National Park
3	Amazing Feats	A: The Long, Hard Road B: Building the Pyramids
4	Big Ideas	A: A New Building B: Big Ideas, Small Sizes
Review 2	The Great Wall of China	The Great Wall of China
5	Striking It Rich	A: Winning the Lottery B: Fantastic Finds
6	Killer Plants	A: Beautiful but Deadly B: A Plant Experiment
Review 3	Central Amazon	Central Amazon Conservation Complex
7	The Night Sky	A: Light Pollution B: Our Solar System
8	The Olympics	A: The Modern Olympics B: The Ancient Olympics
Review 4	Olympia, Greece	The Ruins of Ancient Olympia

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Reading Passage	Language Practice	Video
A: Mount Merapi Erupts B: Into the Volcano	A: Parts of a reading passage B: Punctuation	Volcanoes
A: To Africa With Dad B: A Sister's Love	A: Using so and when B: Indirect questions	Cheetah vs. Gemsbok
A Tanzanian Folktale: The Rabbit and the	e Well	Ch. Sar
A: Porters on the Tea Horse Road B: Builders of the Pyramids	A: Contrasting using although B: Giving extra information	An Amazing Trip
A: The Building that Moves B: Making It Safe	A: Using however B: have to / don't have to	Solar Cooking
A Chinese Folktale: Meng Chiang-nu and	I the Great Wall	
A: A Real Winner B: Old But Valuable	A: Past continuous B: Joining clauses	Treasure Under My Home
A: Plants That Eat Insects B: Darwin's Diary	A: Describing a sequence B: Making predictions	Plants
A Brazilian Folktale: The Curupira		
A: The End of Night B: Earth's Neighbor	A: Using affect and effect B: Comparing things	The Solar System
A: An Olympic Blog B: Let the Games Begin!	A: The prefix re- B: some, any, every, no	The Olympics
A Greek Folktale: Persephone and the Re	eturn of Spring	
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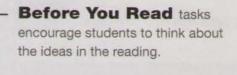
Warm Up discussion

questions

unit topic.

introduce the

#### **Unit Walkthrough**





Before You Read
 Desawster. Look in the photos of the building above. What is special about 97 Desaws with a pathos.
 Defaultions. Matter the words with their meanings.

Strategy: 5: Who had the for this build

The architect vestre to P touch the new budding in Duste, This is the new for budding in Guide's seem! In the last of School's seem!

#### The Building That MOVE

Fisher has an arranting after. For worth no reader 60-story healthings that change theyer. Each their will more around slowly. The Book will move at different speeds. Because of this, the shape of the healthing is always changing. These buildings will never look the second of the

His life is an interesting one However, Tabler down't step there. He also want his hailing is the green. "The bolding of minute it was energy, he made building only the log floor has a row? In Fainter's building, each floor will have the sort exect. The routh each have sale prode? The means a let more now be energy. Also, mechans between each floor of the building will each the wind. They will turn the wind into energy.

that's what people also said before humana traveled little space!

In material sequences:

In material sequences:

It is not set.

Top This medicate I water persons



#### **Reading Passages**

are adapted and graded from authentic sources.

#### Reading Comprehension

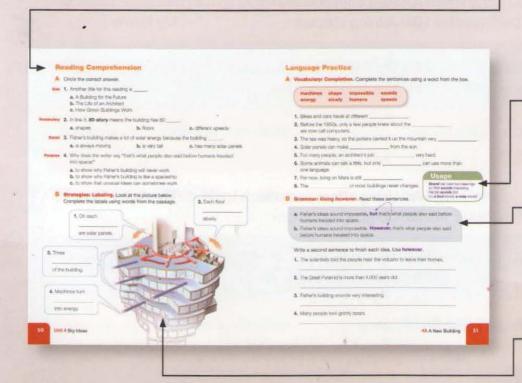
questions check students' understanding of the reading passage.

#### **Vocabulary Builder**

boxes highlight common collocations, affixes, and usage notes.

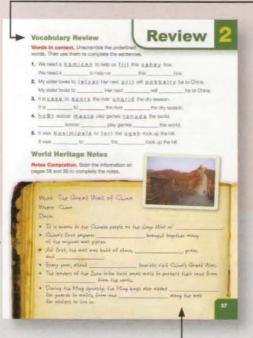
**Grammar** activities practice important grammar structures introduced in the reading passage.

Maps, charts, and diagrams help students develop visual literacy.





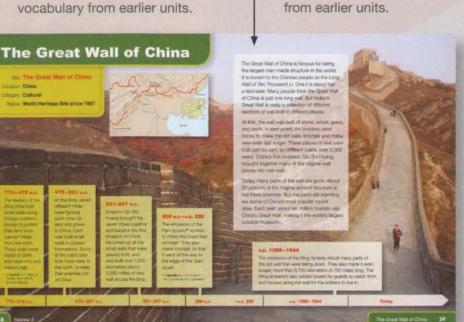
#### **Review Unit Walkthrough**



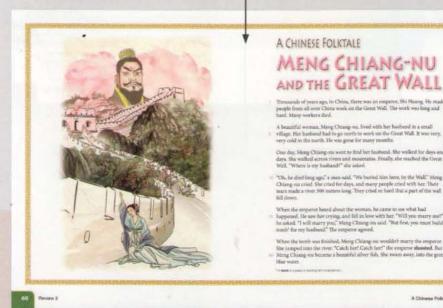
World Heritage
Notes preview content of
World Heritage Site pages.

#### **Vocabulary Review**

activities reinforce the vocabulary from earlier units.



**Folktales** from areas related to the World Heritage sites in the preceding spread introduce students to stories from cultures around the world.



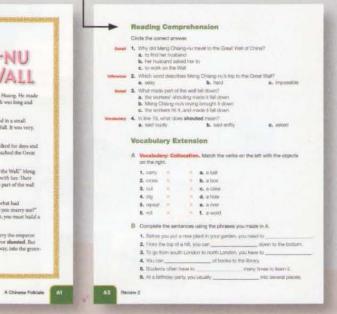
#### **Reading Comprehension**

World Heritage Site pages highlight important cultural and natural places

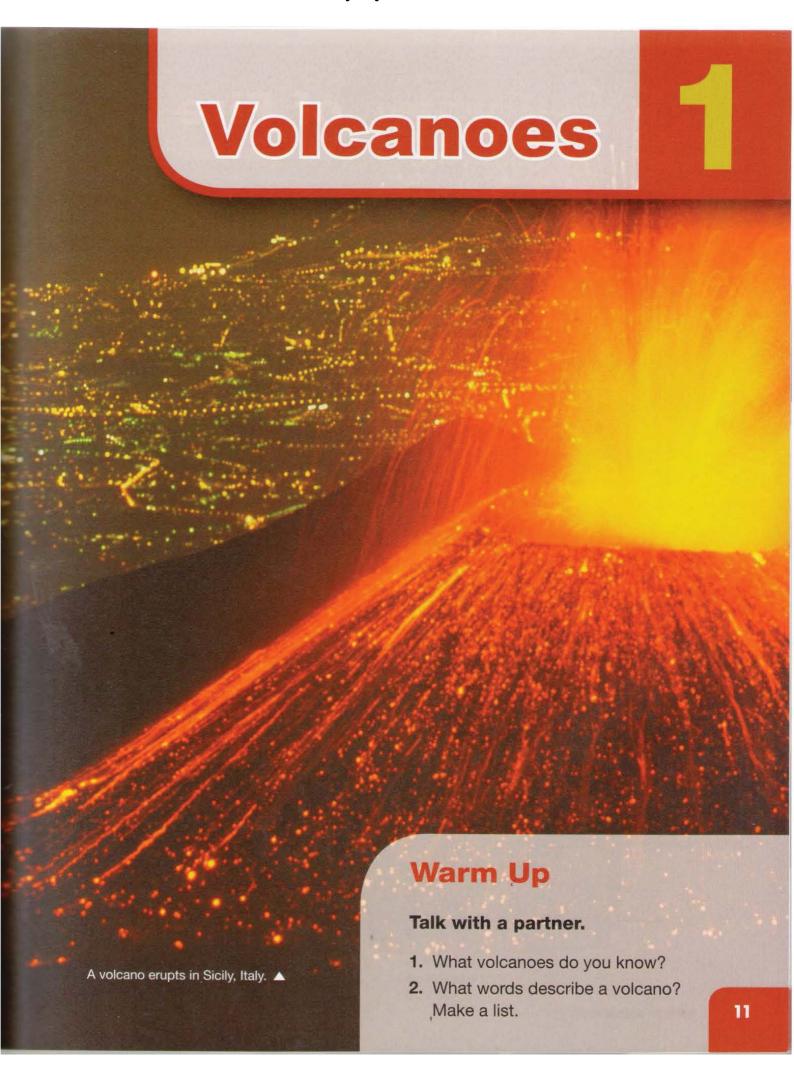
around the world, and recycle

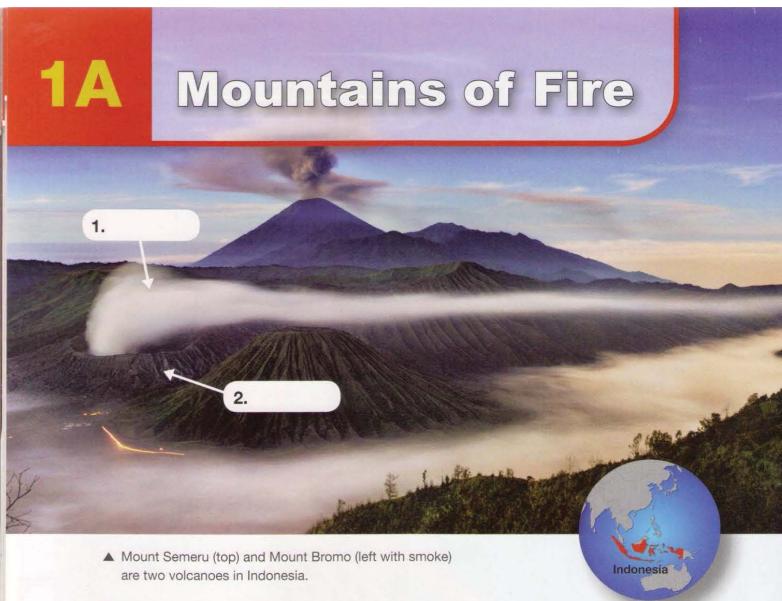
vocabulary and structures

questions check students' understanding of the folktale.



Make reading an adventure online—anywhere, any time! Visit www.HeinleELT.com/readingadventures for self-study grammar, vocabulary, and reading activities. Watch the National Geographic videos from the series either inside or outside the classroom.





#### **Before You Read**

- A volcano looks like a mountain, but active volcanoes sometimes erupt. There are about 1,900 active volcanoes in the world. Before volcanoes erupt, smoke and ash come out of them. When a volcano erupts, hot lava comes out.
  - B Definitions. Match the words (1 to 8) with their meanings (a to h).

1. hot	<b>2.</b> air	3. happy	4. near	5. terrible	6. safe	7. leave	8. a lot of
	a. close	to, not far			e. <b>4</b>	)	
	b. 🕛				f. not	dangerous	3
	<b>c.</b> go ou	ut from, go a	away from		_ g. the	thing we b	reathe
-	d. many	/		T -	h. ven	y, very bad	

#### Reading

Strategy: Scanning. When did Mount Merapi erupt? How many times did it erupt that day?



For the people near Mount Merapi—a volcano in Indonesia—Monday, October 25, 2010 started like every other day. People got up.

They went to school and work. Like

many other days, smoke and ash¹ came out of the volcano. Before this, scientists² told the people near the mountain to leave their homes. However, they didn't want to leave. That morning, the volcano was worse. The scientists again told people to

leave their homes. This time the people

went to a safe place.

#### **Monday Afternoon**

That afternoon, Mount Merapi erupted three times. Hot lava and rocks went down the mountain. A lot of ash went into the air. Because of the ash, people could not see the mountain.

#### **After the Eruption**

After the eruption, people went 20 back to their homes. There was ash in their rooms. There were no trees or other plants. It was terrible. The people were very happy they left their homes before the eruption.



Mount Merapi erupts.



1 Ash on plants near Mount Merapi.

scientists look at volcanoes. They are called volcanologists.

lava

#### **Reading Comprehension**

A Circle the correct answer.

Gist 1. What is the reading mainly about?

- a. people near Mount Merapi b. an eruption
- c. volcanoes in Indonesia

**Detail 2.** When did the scientists first tell people to leave Mount Merapi?

- a. before October 25
- **b.** on October 25 **c.** after October 25

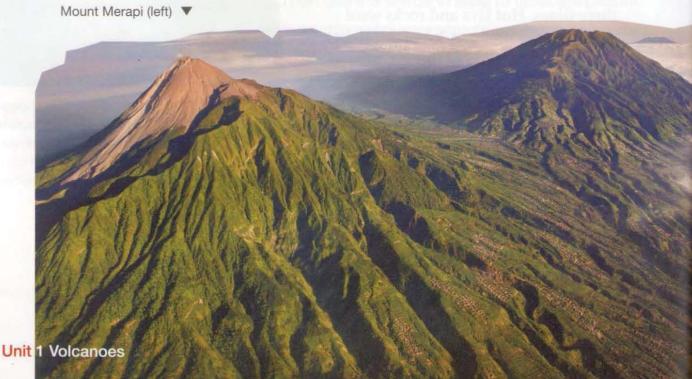
Reference 3. In line 8, the word they means \_\_\_\_\_.

a. scientists

- **b.** the people
- c. the homes

**Purpose 4.** The purpose of the third paragraph is to tell us \_\_\_\_\_.

- a. about the problems from the eruption
- b. what the scientists did next
- c. why the volcano erupted
- **B** Strategy: Sequencing. Number the events in order from 1 to 5.
  - a. \_\_\_\_ The people near Mount Merapi left the mountain.
  - b. \_\_\_\_ The people went back home.
  - **c.** \_\_\_\_ Ash went into the people's rooms.
  - d. \_\_\_\_ Mount Merapi erupted three times.
  - e. \_\_\_\_ Scientists told people to leave the mountain.



#### **Language Practice**

A Vocabulary: Completion. Complete the sentences using a word from the box.

1	-2	
4	Malaysia	
4	Malaysia	
•	Indonesia	

a	lot of	air	happy	hot	leave	near	safe	terrible	
_									-

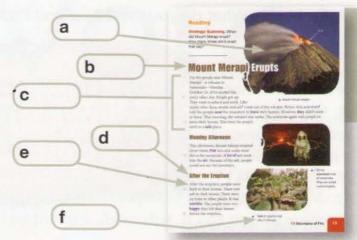
- 1. All people need \_\_\_\_\_\_ to live. 1 a desert
- 2. In the U.S., most people \_\_\_\_\_ high school when they are about 18.
- 3. Indonesia is \_\_\_\_\_ Malaysia.
- 4. Indonesia has \_\_\_\_\_\_ islands—more than 15,000!
- 5. We often say "\_\_\_\_ Birthday!" on a person's birthday.
- 6. It is not \_\_\_\_\_\_ to go too near an erupting volcano.
- 7. In 1883, a(n) \_\_\_\_\_\_ eruption on Krakatoa, Indonesia, killed more than 40,000 people.
- 8. Most deserts<sup>1</sup> are

#### Usage

A lot of means very many or very much. A lot is also an adverb: I like him a lot.

#### B Grammar: Parts of a reading passage. Write

the correct numbers to label the parts of the reading passage.

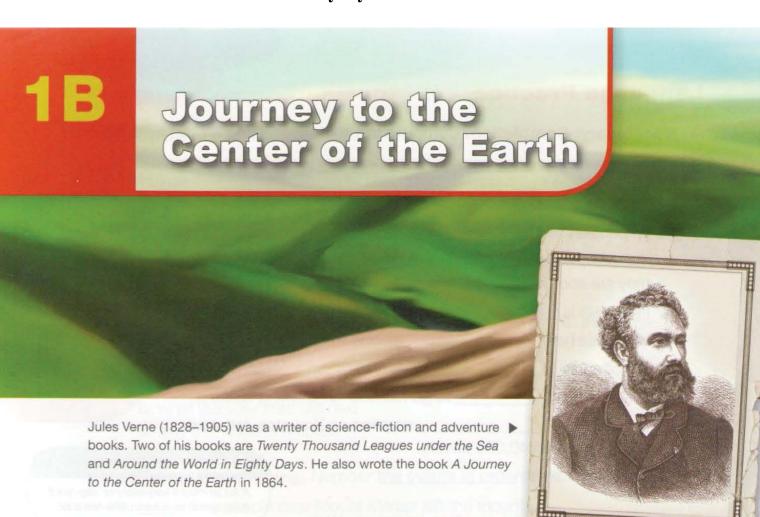


- 1. title
- 4. picture
- 2. subheading
- 5. caption
- 3. paragraph
- 6. sentence

In each sentence below, circle the best answer.

- The title of the passage is ( Mount Merapi Erupts / Monday Afternoon ).
- 2. There are (2 / 3) subheadings in the passage.
- 3. There are (3 / 4) paragraphs in the passage.
- 4. There are (2 / 3) pictures with captions on page 13.
- 5. The last paragraph has ( 4 / 5 ) sentences.

  1A Mountains of Fire



#### **Before You Read**

A Discussion. Read the information below. What do you think Axel and Professor Liedenbrock are going to do?

The passage on the next page is from *A Journey* to the Center of the Earth. In the story, two men, Axel and Professor Liedenbrock, find a book with a secret message. The secret message was from a man called Arne. It tells of Arne's journey deep into a volcano.



B Definitions. Match the words with their meanings.

1. beautiful	2. climb	3. imagine	4. inside	5. sudden	6. rest	7. deep	8. whole
a.	all of some	thing		e. not	outside		
b.	fast and su	irprising		f. ven	y far dow	'n	
c.	think about	t		g. sto	p work a	nd don't d	lo anything
d.	move up o	r down a mo	untain _	h. ven	y good to	look at	



Strategy: Skimming. Read the passage quickly. Did the volcano erupt? Yes / No

# VOLCANO

We stood at the top of Mount Sneffels in Iceland. This was the volcano Arne went into. Now it was our turn to go **inside**!

From the top, I looked out and I could see the **whole** island. It was **beautiful**. Then I looked down, **deep** into the volcano. Did Arne really go in there? There was no

5 time to think about that. It was time to go!

Down, down we **climbed**. The climb was very hard, but in the afternoon, we were at the bottom. I sat down to **rest**. I **imagined** the volcano **suddenly** erupting, with rocks, ash, and lava coming out. "**This** is a terrible idea!" I thought, but the professor didn't seem to feel this way. He was very happy, and he ran **here and there**,

looking at everything. Suddenly, he called, "Axel, come here!" and pointed to the wall. On the wall, I could see the word *Arne*.

#### **Reading Comprehension**

#### A Circle the correct answer.

**Detail 1.** Who was the first person into Mount Sneffels?

a. Arne

b. Axel

c. the professor

Reference 2. In line 8, the word this means \_\_\_\_\_.

a. sitting down to rest b. going into the volcano c. seeing the volcano erupt

Vocabulary 3. In line 9, here and there means \_\_\_\_\_.

a. many different places

b. around the island

c. the top and bottom of the volcano

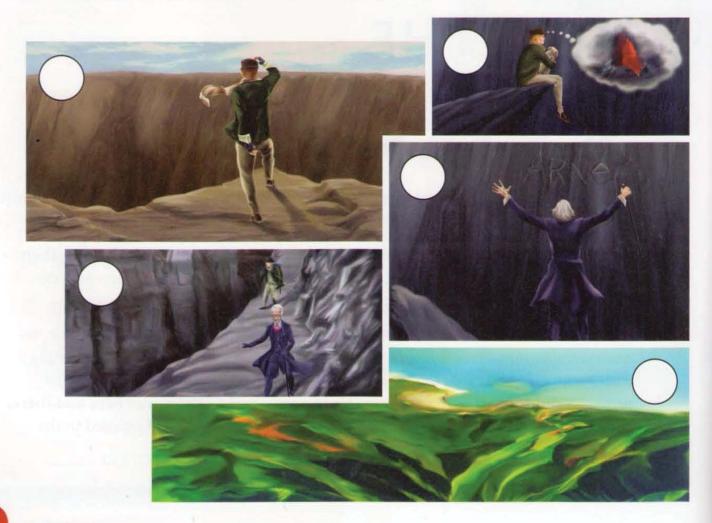
Inference 4. In the story, how many people went down into the volcano (counting everyone)?

a. 2

**b.** 3

C. 4

B Strategy: Sequencing. Read the story again. Put the pictures in order from 1 to 5.



#### **Language Practice**

A Vocabulary: Matching. Match the two halves of the sentences. Then circle the numbers of the sentences you agree with. Compare your answers with a partner.

1.	Most	people	can't	climb	d

- 2. Dogs and cats can
- 3. There is no way to
- 4. Most volcanoes
- 5. A person can eat \_\_
- 6. It is good to work all day \_\_\_\_\_
- 7. Your TV<sup>2</sup> is usually
- 8. Most people think

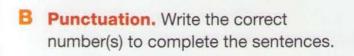
- a. suddenly learn English.
- b. a whole cake<sup>1</sup> in 10 minutes.
- c. inside your home.
- d. a very tall mountain.
- e. mountains are beautiful.
- f. without a rest.
- g. are deep.
- h. imagine things.

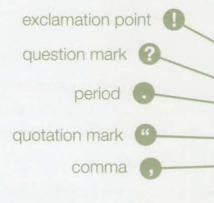


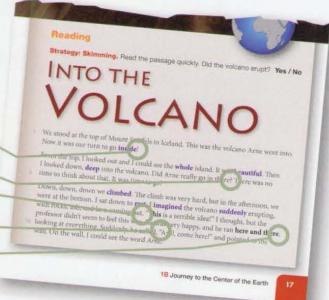
1 a cake



<sup>2</sup> a TV







1. There are \_\_\_\_\_ periods in the second paragraph.

2. The passage has \_\_\_\_ commas.

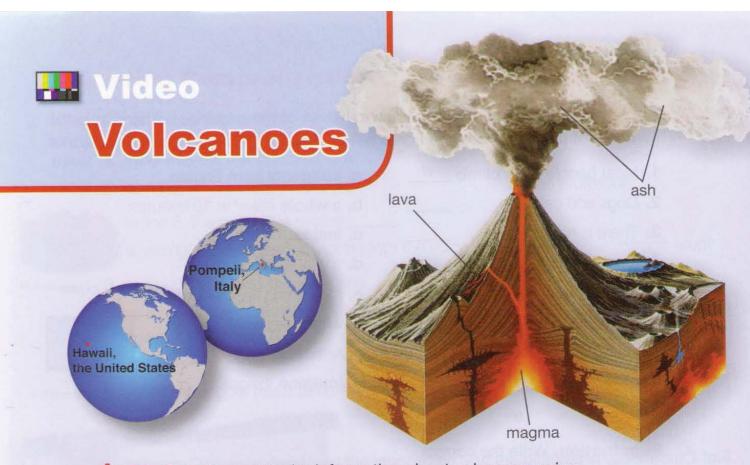
3. The passage has \_\_\_\_\_ exclamation point(s) and \_\_\_\_ question mark(s).

4. There are \_\_\_\_\_ sentences in quotation marks in the passage.

#### **Word Partners**

Use deep with:

a deep breath, deep water, a deep hole, deep sleep, a deep voice



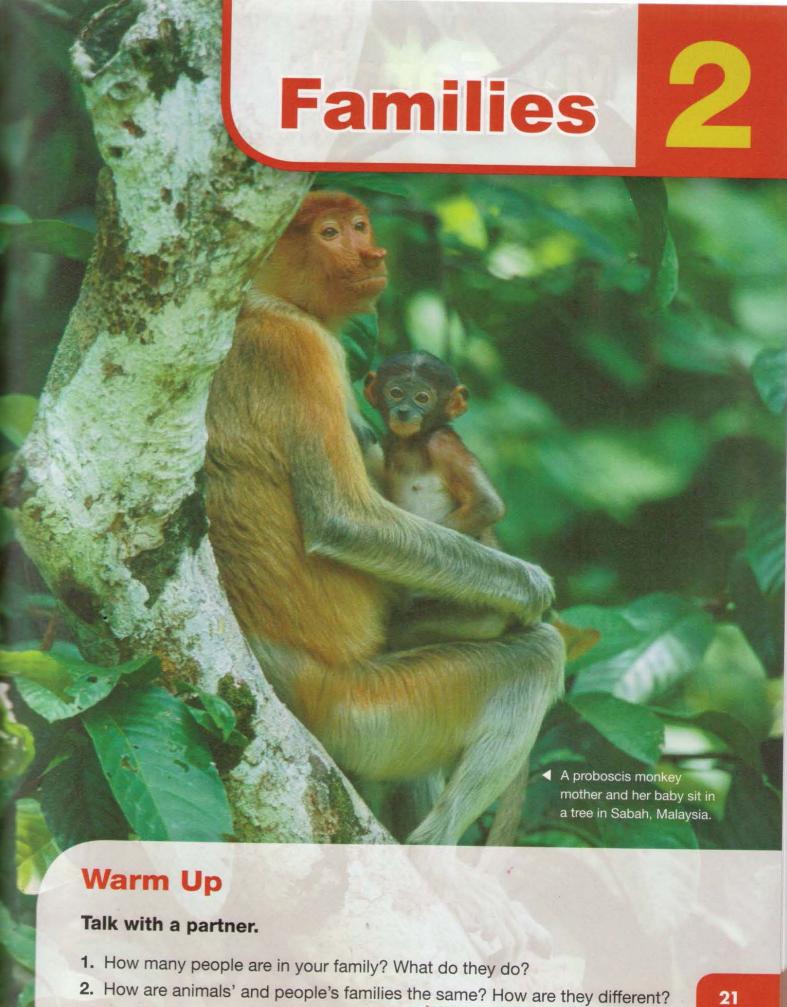
A Preview. Complete the information about volcanoes using the words in the box.

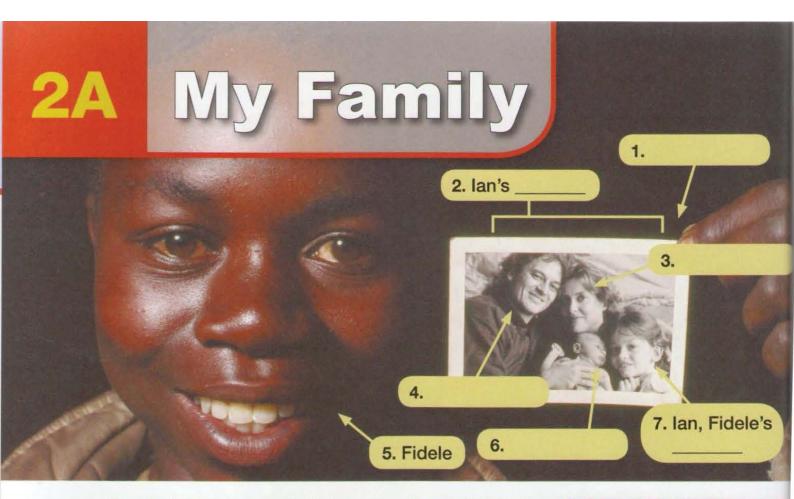
erupt	lava asii	magina	
Inside the E	Earth, there is hot 1	•	Sometimes volcanoes
2.	and mag	gma comes ou	t. When magma comes out of
a volcano, t	the magma is called	d <b>3.</b>	Also, when a volcano
	9		

B As you watch. Match the numbers to the correct sentences.

0	79 8	0 90 1,500 1983
1.	About _	of the volcanoes on Earth still erupt.
2.	About _	percent of all volcanoes are in the Ring of Fire.
3.	In	, Kilauea in Hawaii started erupting.
4.	In A.D	, Mount Vesuvius erupted near Pompeii.
5.	Volcano	es made percent of the land.

C Talk with a partner. Did any of the sentences in B surprise you? Why?





▲ This is Fidele, a boy from Rwanda. He is showing a picture of his friend, lan Nichols, and lan's family. You can see lan's father. His name is Michael. You can see his mother, too. Her name is Reba. lan also has a brother, Eli. Eli was just a little baby then. lan doesn't have a sister.

When Ian was a boy he went to school in Rwanda. In this picture, he is **studying** with his friends.

#### **Before You Read**

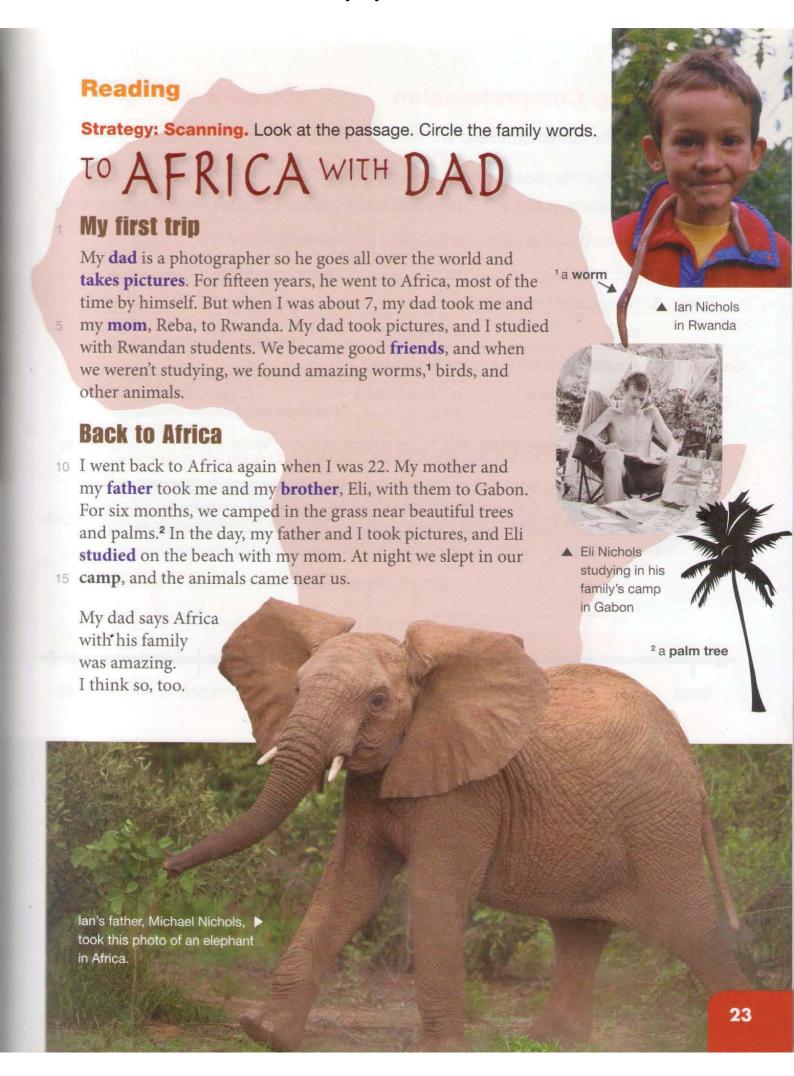
A Labeling. Read about the two pictures above. Write the words in blue in the correct boxes. Two words are extra.

B Definitions. Match the words with their meanings.

1. brother 4. friend 2. family 3. father (dad) 5. mother (mom) 6. sister 7. study (v.) 8. take pictures a. a woman; she has children e. a man; he has children b. a girl; she has the same f. a boy; he has the same mother or father mother or father c. to learn g. a person you like d. brother, father, mother, and h. to use a camera sister together

Rwand

Gabon



#### **Reading Comprehension**

A Circle the correct answer.

- Gist 1. What is this passage mainly about?
  - a. animals in Africa
- **b.** how to take pictures **c.** lan Nichols and his family
- **Detail 2.** How old was lan when he first went to Rwanda?
  - a. 7

**b.** 14

c. 22

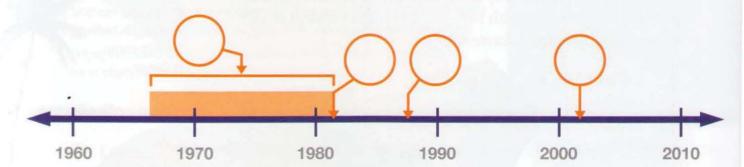
- Detail 3. Who studied in Gabon?
  - a. Eli

b. Reba

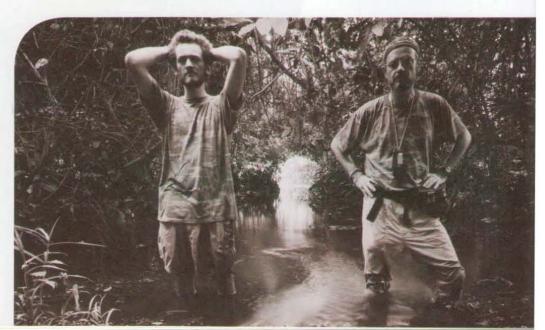
c. lan

- Vocabulary 4. A camp (line 15) is a place where you \_\_\_\_\_.
  - a. sleep outside
- b. take photos
- c. go to school
- **B** Strategy: Sequencing. Put these events in order. Write a to d on the timeline.
  - a. Ian Nichols is born.

- c. lan's family goes to Gabon.
- b. lan's family goes to Rwanda.
   d. Mike Nichols usually goes to Africa alone.



Ian Nichols and his > father, Michael, in the Republic of the Congo in 2008



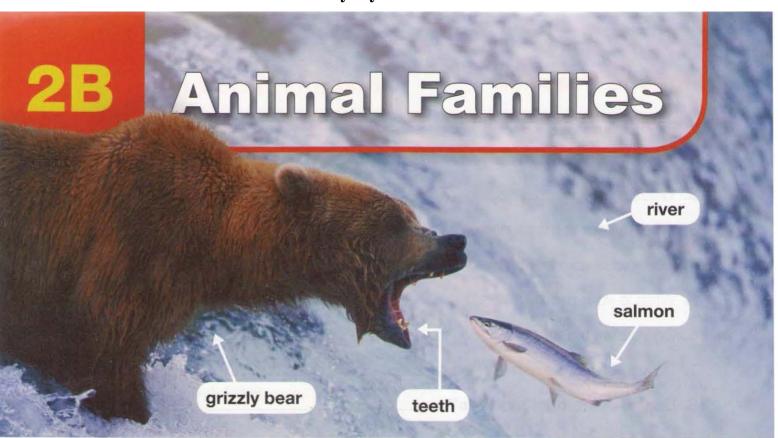
#### **Language Practice**

1	ocabulary: Words in context. Answer the questions below.
1	. How many brothers do you have?
2	2. Who is the youngest person in your family?
3	3. What is your father's name?
4	How old is your best <b>friend</b> ?
5	. What is your mother's name?
6	6. Do you have a sister?
7	. Do you study English every day?
8	B. Do you like to take pictures?
(	Grammar: Using so and when. Read these two sentences.
a	A. My dad is a photographer, so he goes all over the world and takes pictures.  D. When I was about 7, my dad took me and my mom, Reba, to Rwanda.
a	. My dad is a photographer, so he goes all over the world and takes pictures.
a b	My dad is a photographer, so he goes all over the world and takes pictures.  When I was about 7, my dad took me and my mom, Reba, to Rwanda.
8 b	<ul> <li>My dad is a photographer, so he goes all over the world and takes pictures.</li> <li>When I was about 7, my dad took me and my mom, Reba, to Rwanda.</li> <li>Use so or when to join the sentences below.</li> <li>Ian lived in Rwanda. He studied at a Rwandan school.</li> </ul>
1 1 · · · · · · · · · · · · · · · · · ·	My dad is a photographer, so he goes all over the world and takes pictures.  When I was about 7, my dad took me and my mom, Reba, to Rwanda.  Use so or when to join the sentences below.  Ian lived in Rwanda. He studied at a Rwandan school.  When

#### **Word Partners**

Use friend with:

(adj.) best friend, close friend, good friend, old friend (v.) make a friend



▲ There are a lot of salmon in the rivers of Alaska, and bears love to catch them.

Bear mothers have one to four babies, called cubs, at one time. The cubs stay with their mother, and the mother looks after them until they are two years old. After that, the bears live alone.

Today, there are about 58,000 grizzly bears in North America. Many people **love** bears, but, sadly, some people hunt and **kill** them, and cut down their forests. Because of this, the bears are in **trouble**, and many people are **worried** about them.



#### **Before You Read**

- A Discussion. Read the information about bears above. What do you know about bears? Tell a partner.
- B Definitions. Match the words with their meanings.
  - 1. alone
- 2. catch
- 3. kill
- 4. look after

- 5. love
- 6. stay
- 7. trouble
- 8. worry

- \_\_\_ a. not with other people
- \_\_\_\_e. to not go

b. problems

- \_\_\_\_\_f. really, really like
- c. to find and hold
- a. to take care of
- \_\_\_\_ d. to make something die
- \_\_\_\_ h. to think about bad things

Unit 2 Families

#### Reading

Strategy: Skimming. Read the passage very quickly. What happened to the cub?

### A Sister's Love

Do you think bears know who their brothers and sisters are? Do you think they love them in the same way people do?

Every summer, bears eat a lot of salmon. The grizzlies stand in the water and use their front legs¹ to feel the river bottom.²

When they feel a salmon, they catch it with their feet, and

When they feel a salmon, they **catch** it with their feet, and then **grab** it with their teeth.

One young grizzly was having **trouble**. A hunter **killed** his mother and also shot the cub in the leg, so he could not fish. He tried and tried, but he never caught any salmon.

Stacy Corbin, a fishing guide<sup>3</sup> in Alaska, **worried** about the cub—until **he** saw the cub's sister catch six salmon and put them near her brother's feet. While other cubs hunted

**alone**, the sister **stayed** and **looked after** her brother. "She fed him for weeks," says Corbin. Because of her, he lived. That really is **love**!

3 fishing guide: a person who shows people where to catch fish

The bear's sister caught salmon for him until he was better.

<sup>2</sup> Salmon swim along the river bottom.



#### **Reading Comprehension**

A Circle the correct answer.

- Main Idea 1. What is the main idea of this passage?
  - a. Grizzly bears are not very dangerous.
  - **b.** Animals can feel love like people do.
  - c. Hunting is a bad thing to do.

Detail 2. Why couldn't the cub catch fish?

a. His mother was dead.b. His leg was hurt.

c. He couldn't find fish.

Vocabulary 3. Grab (line 6) has the same meaning as \_\_\_

a. hold

b. kill

c. feel

Reference 4. On line 9, who is he?

a. the hunter

b. Stacy Corbin

c. the cub

B Strategy: Identifying cause and effect. Match the causes and effects to make sentences.

1. A hunter shot a cub's mother, and o a. it couldn't catch fish.

2. The bear's foot was hurt, so

o b. it didn't die.

3. The cub couldn't catch fish, so oc. Stacy Corbin thought it was in trouble.

4. The cub's sister helped it, so • d. she died.



#### **Language Practice**

A	cabulary: Words in context. Answer the questions below so they are see for you. Then tell a partner.
	What things do you love?
	Have you ever caught a fish?
	What is something you are worried about now?
	Do you prefer to go places or stay home?
	Do you enjoy being alone?
	Do you know anyone in trouble? Who?
	Do you feel bad if you kill an insect?1
	Have you ever looked after a baby?
В	rammar: Indirect questions. Read these sentences.  1 A ladybird is a kind of insect.
	Who are their brothers and sisters?  b. What do bears eat?  Do you know what bears eat?
	what is his name?  Do you know
	When is her birthday?  Do you know
	How did the bear catch the fish?  Do you know
	Why is the bear angry?  Do you know
	What are the salmon doing?  Do you know
	Where do salmon live?  Do you know
	Word Dartman

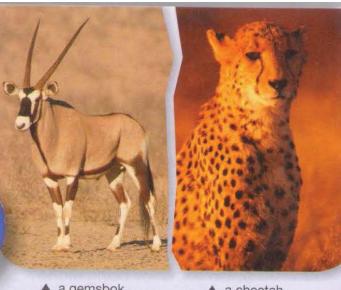
#### **Word Partners**

#### Use trouble with:

(v.) run into trouble, have trouble, make trouble, cause trouble (adj.) big trouble, real trouble, serious trouble (prep.) trouble with, in trouble



Cheetah vs. Gemsbok



a gemsbok

a cheetah

A Preview. Read the information. Then write the words in blue next to their definitions.

Calahari

Gemsbok and cheetahs live in Africa. They live in the desert, so they have to move around a lot to look for food and water. Cheetahs sometimes hunt gemsbok. But gemsbok have two big horns on their heads, and are not easy to kill.

- 1. hard, pointed things growing on an animal's head
- 2. a place with little or no water, rain, or plants
- 3. to look for and catch something to eat

#### B After you watch. Answer the questions.

- 1. Why is the mother cheetah worried?
  - a. She can't find food
  - b. She can't find her children.
  - c. Her children are not safe near gemsbok.
- 2. When will the cheetah cubs leave their mother?
  - a. when they're less than 12 months old
  - b. when they're 18 months old
  - c. when they're more than 24 months old
- 3. Why does the mother gemsbok run after the cheetahs?
  - a. She wants them to go away.
  - b. She wants to eat them.
  - c. She's playing with them.
- C Think about it. How did you feel about the video? Were you happy the gemsbok wasn't killed, or were you sad the cheetahs couldn't find food?

#### Review

## 1

#### **Vocabulary Review**

A Odd word out. One word in each group is a different part of speech to the others. Circle the different words.

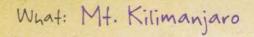
- 1. beautiful / happy / terrible / trouble
- 2. leave / catch / whole / kill
- 3. many / inside / near / outside
- 4. climb / deep / study / imagine
- 5. alone / sister / father / brother
- 6. air / river / salmon / suddenly
- 7. friend / mother / safe / family
- 8. look after / a lot of / be worried / take pictures

S	F	Y	Α	L	W	٧	Α	E
Α	S	U	D	D	E	N	L	Y
F	В	R	0	S	Z	0	0	S
E	В	D	P	J	Н	E	N	٧
D	-1	E	J	W	0	1	E	J
T	E	T	R	0	U	В	L	E
D	W	K	Н	K	M	Α	N	Y
E	C	T	J	F	L	Q	F	Q
Α	L	0	T	0	F	G	Z	R

B Word search. Now look for the words you circled, and circle them in the puzzle.

#### **World Heritage Notes**

**Notes completion.** Scan the information on pages 32 and 33 to complete the notes.



Where: \_\_\_\_\_, Africa

Data:

- Mt. Kilimanjaro is the tallest mountain in

  It's \_\_\_\_\_ meters high.
- The land around the mountain is \_\_\_\_\_ and dry.
  - There is \_\_\_\_\_ on the top of the mountain.
  - There are a lot of different plants and \_\_\_\_\_\_\_in
     Kilimanjaro National Park.
  - About 1,000 people \_\_\_\_\_ Mount Kilimanjaro every year.



# Kilimanjaro

Site: Kilimanjaro National Park

Location: Tanzania, Africa

Category: Natural

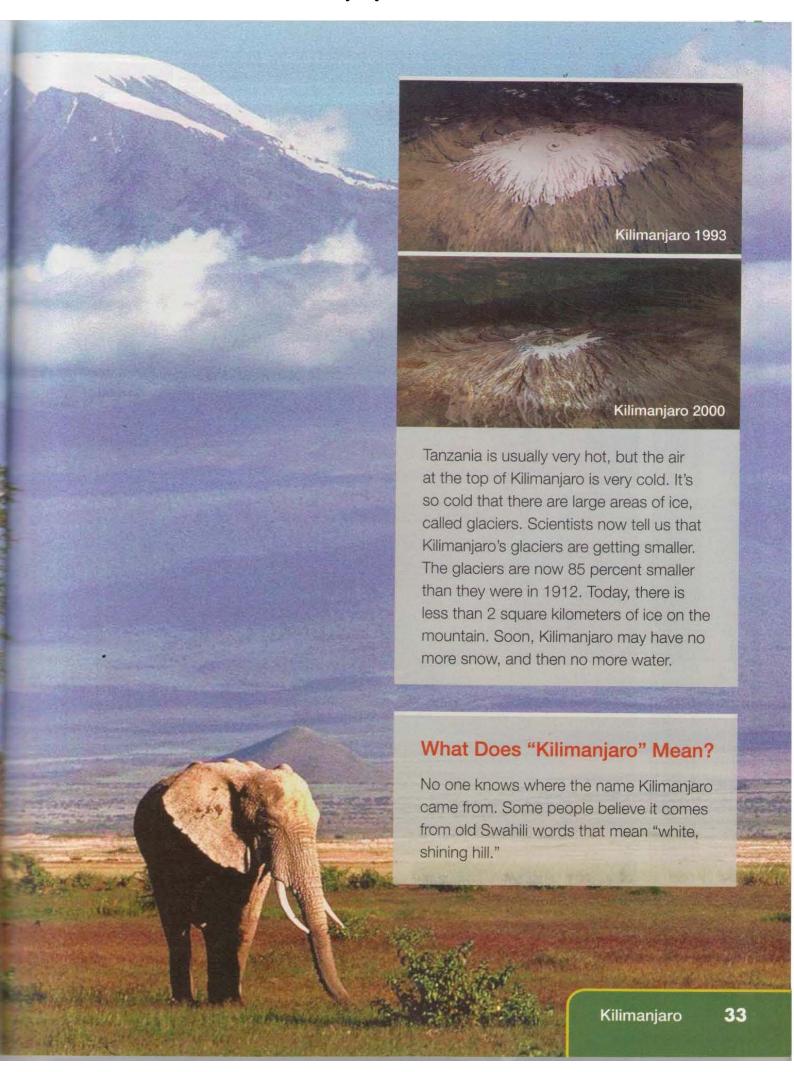
Status: World Heritage Site since 1987

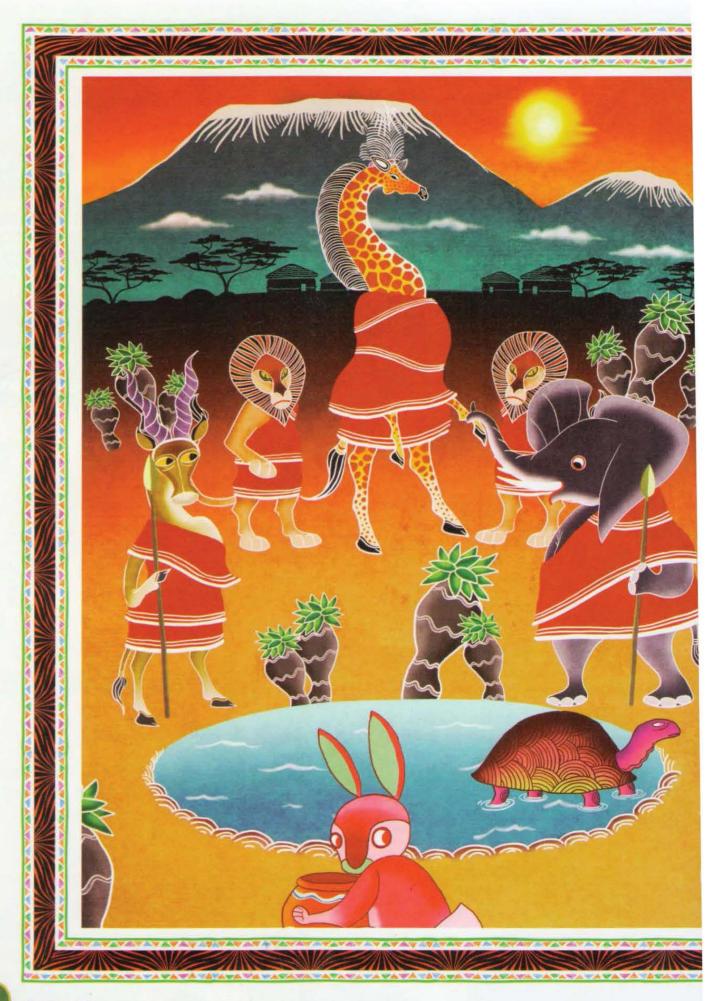
At 5,895 meters high, Kilimanjaro is the tallest mountain in Africa. It is also one of the largest volcanoes in the world. Africa is really hot and dry, but the top of Mt. Kilimanjaro has snow on it!

The snow turns into water and flows down the mountain, so there's a lot of water. Many types of plants and animals—like elephants and giraffes—live near the mountain. Kilimanjaro National Park is a safe place for these animals to live, and a good place for a lot of different plants to grow.

Today, Kilimanjaro is a very popular place to visit. About 1,000 people climb the mountain every year. Climbing is hard work, but you don't have to be a good mountain climber to climb Kilimanjaro. You only have to be healthy.

#### www.yahyasoliman.com





# A TANZANIAN FOLKTALE THE RABBIT AND THE WELL

Long ago, there was a small village in Tanzania. Many different animals lived there. There were elephants and lions. There were antelopes and rabbits. The giraffe was the king of all the animals.

One summer it was very hot. There was very little rain. Soon, the animals did not have enough water to drink.

The giraffe called a meeting of all the animals. "What can we do?" he asked them. They decided to dig a well. The rabbit, however, did not want to do any work.

The animals dug a well—and the rabbit sat nearby, laughing. Soon they had cool, clean water to drink. The giraffe said, "The rabbit did not help with this well. He cannot drink the water. Every day, one animal will guard the well."

The first day the elephant guarded the well. The rabbit walked up to him and gave him some honey. The elephant asked for more. The rabbit said, \*OK, but first I have to tie your hands and legs. You will enjoy the honey more this way." The rabbit tied up the elephant and jumped into the well. He drank water, and swam and laughed. Then he ran away.

The giraffe was very angry. The next day, he asked the antelope to guard the well. The rabbit came by and tricked him, too. He drank water and swam. He laughed at the antelope and then ran away.

Finally, it was the turtle's day to guard the well. The turtle climbed into the water and waited for the rabbit. The rabbit came and did not see any guards. He jumped in the water—and the turtle grabbed him. He took him to the king. The rabbit was in trouble.

After that, all the animals enjoyed their water in peace.

#### **Reading Comprehension**

**Strategy: Sequencing.** Number the events in the story on pages 34 and 35 from 1 (the first) to 8 (the last).

- a. \_\_\_\_\_ It was very hot one summer.
- b. \_\_\_\_ The animals dug a well.
- c. \_\_\_\_ The rabbit laughed at the antelope.
- d. \_\_\_\_ The animals enjoyed their water in peace.
- e. \_\_\_\_\_ The turtle grabbed the rabbit.
- f. \_\_\_\_\_ The rabbit tricked the elephant.
- g. \_\_\_\_ There was not enough water to drink.
- h. \_\_\_\_ The rabbit did not help dig the well.

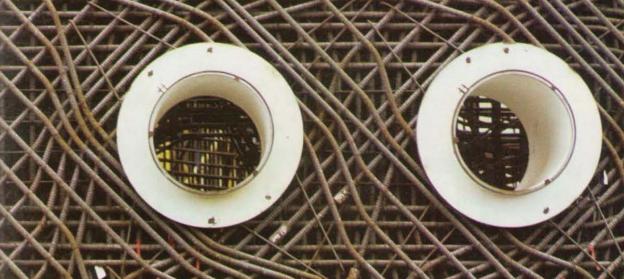
#### **Vocabulary Extension**

**Vocabulary: Phrasal verbs.** Phrasal verbs—a verb + a preposition or adverb— are very common in English. Complete the sentences with the correct preposition from the box. Then circle the six phrasal verbs in the reading.

(	at	away	for	into	up	with			
1.	Cats l	ove to climb	)		small places.				
2.	It is no	ot good to la	augh		people in trouble.				
3.	Some	people ofte	en wait		the bus for more than 30 min				
4.		ne countries outside.	s, you tie		old newspapers and put				
5.	Small	animals oft	en need to	run			from big animals.		
6.		you have to			nework,	you should	d ask someone to he		

# **Amazing Feats**

# 3

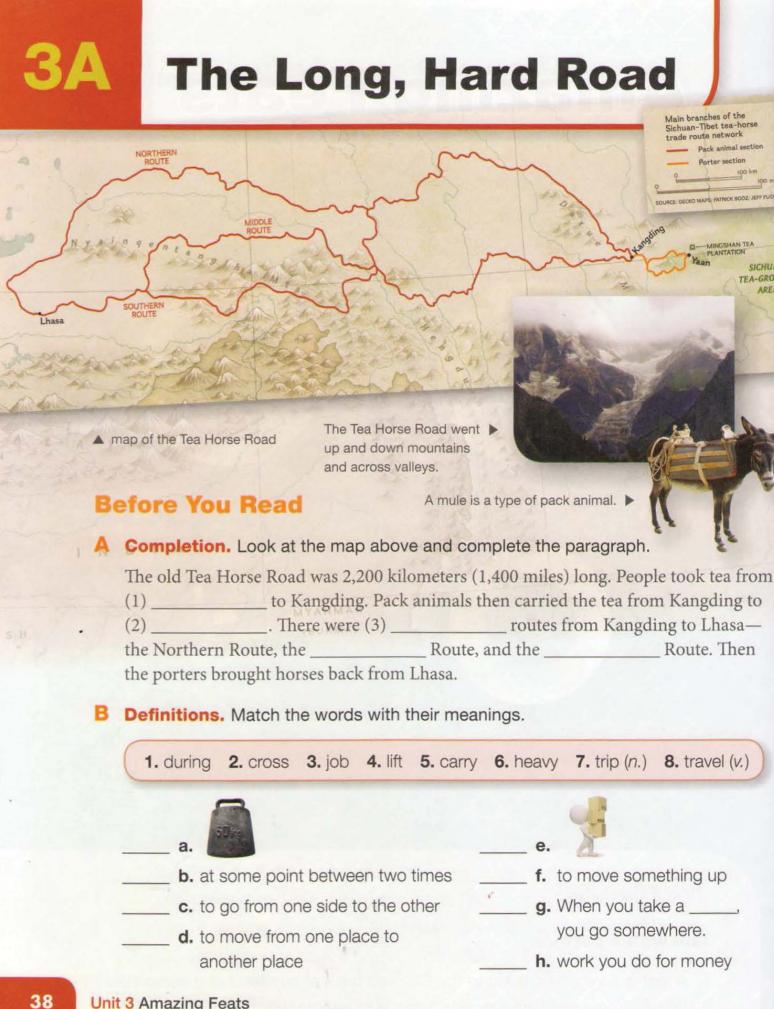


#### Warm Up

A power station worker in Hanford, U.S.A.

#### Talk with a partner.

- 1. A feat is a very hard thing to do. Can you think of any feats one person did?
- 2. Do you know anything amazing a group of people did together?



#### Reading

Strategy: Predicting. This passage is about people working on the Tea Horse Road. What do you think their job was like? Tell a partner.

## PORTERS ONTHE TEA HORSE ROAD



▲ The tea porters are remembered in this statue park in Yaan, China.

Can you **lift** a person? Could you **carry** that person for 200 kilometers?

Before 1950, some Chinese did something like that. These men and women, called porters, carried tea on their backs. They walked for 20 days. During that time, they traveled about 200 kilometers.1

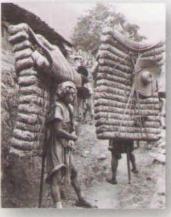
Luo Yong Fu was one of the porters. Although he weighed only about 50 kilograms,2 he carried more than 60 kilograms of tea! The heavy tea wasn't the only hard part of the **trip**. The porters went up mountains. They **crossed** valleys. They didn't even stop when the snow was a meter deep. Luo Yong Fu carried tea from 1935 to 1949. He said, "It was a terrible job." But people today still remember their hard work. The horses they brought back helped many people in China.

The tea was heavy, so the porters had to rest often. As they walked, they sang a song.

#### THE PORTER'S SONG

Seven steps up, rest. Eight steps down, rest. Eleven steps flat, rest. You don't rest, you are stupid.3

- 1 200 kilometers: 125 miles 2 50 kilograms: 110 pounds
- 3 stupid: not clever or smart



▲ tea porters on the Tea Horse Road in 1908

#### **Reading Comprehension**

- A Circle the correct answer.
- Gist 1. What is the reading mainly about?
  - a. tea

b. tea porters

- c. Luo Yong Fu
- **Detail 2.** Every day, the porters walked about \_\_\_\_\_ kilometers.
  - a. 10

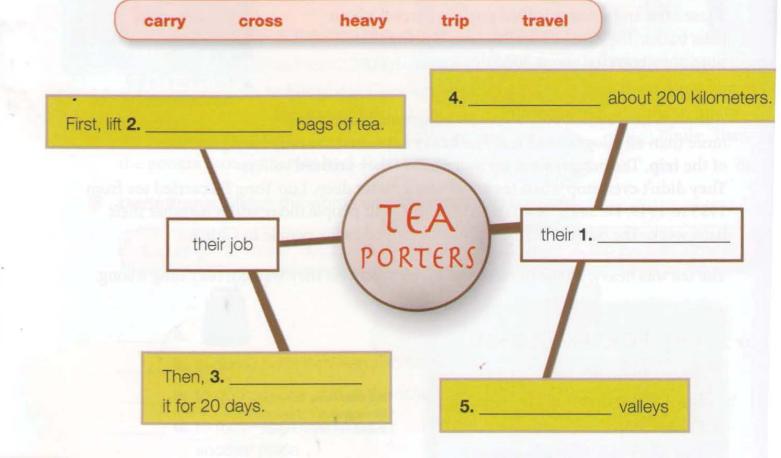
**b.** 20

- c. 200
- Detail 3. Luo Yong Fu carried tea for about \_\_\_\_\_ years.
  - a. 15

**b.** 35

c. 50

- Purpose 4. What is the purpose of the passage?
  - a. to show how tea is carried today
  - b. to show the history of tea in China
  - c. to show the porters had a hard but important job
  - **B** Strategy: Diagram completion. Complete the diagram with the words from the box.

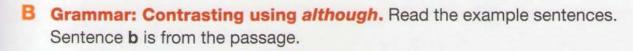


#### **Language Practice**

#### A Vocabulary: Words in context.

Circle the correct word in each sentence.

- Students usually ( carry / lift ) their books in a bag.
- 2. You can't talk ( during / when ) tests.
- 3. Many birds (trip / travel) south in winter.
- 4. Firefighters have a hard ( work / job ).
- (Elephants / Insects ) are heavy.
- 6. Very few people can (lift / trouble) a car.
- 7. The Great Wall<sup>1</sup> (crosses / travels) China from east to west.
- 8. Some families take a (trip / travel) every year.



- a. He weighed only about 50 kilograms, but he carried more than 60 kilograms of tea.
- Although he weighed only about 50 kilograms, he carried more than 60 kilograms of tea.

Use **although** to join the sentences below. Then write two more sentences with your own ideas.

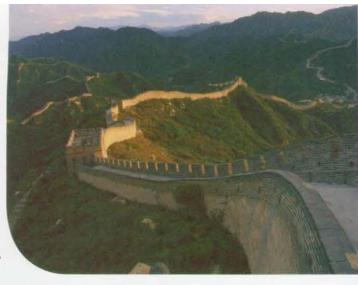
- 1. It was a terrible job. People still remember their hard work.
- 2. The tea was heavy. The porters carried it.
- 3. It often snowed. The porters didn't stop.

4.

5.

#### **Word Partners**

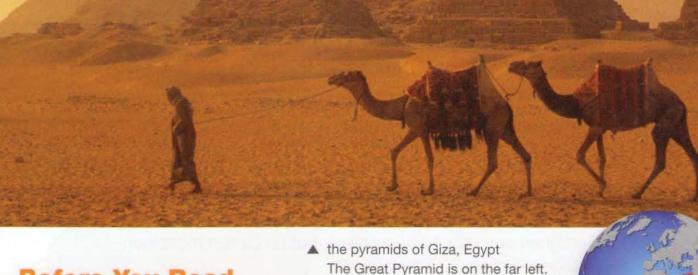
Use cross with: cross the street, cross a road, cross a line, cross a river



<sup>↑</sup> The Great Wall is over 8,000 kilometers long.



## **Building the Pyramids**

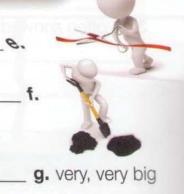


#### **Before You Read**

A Discussion. Look at the picture above. How old are the pyramids? Who do you think built them? Talk about your ideas with a partner.

**Definitions.** Match the words with their meanings.

- **1.** dig 2. mystery 3. perfect 4. cut
- 8. around the world 5. huge 6. popular 7. team
  - a. When something is \_\_\_\_\_, many people know and like it.
    - b. in many different countries
    - \_\_\_ c. no problems, good in all ways
    - d. something people cannot understand

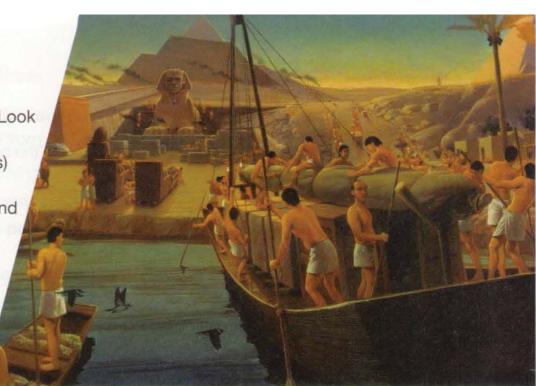


- h. A group of people They work together

#### Reading

Strategy: Predicting. Look at the title and pictures.
Check (✓) the question(s) you think the passage will answer. Then read and check your predictions.

- Who made the Great Pyramid?
- How did they make it?
- Where is it?
- How big is it?



Egyptian workers carrying blocks to the Great Pyramid.

#### BUILDERS OF THE

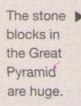
## PYRAMIDS

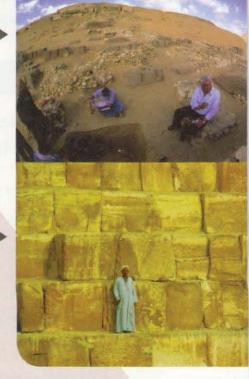
Every year, millions of people from **around the world** visit the Great Pyramid at Giza. It is as **popular** today as it was 4,000 years ago. During most of that time it was taller than any building on Earth.

#### How was it made?

- The Great Pyramid, one of the Wonders of the World, has more than 2 million blocks. Many of them are **huge**. Some are as heavy as five school buses! Although **they** were heavy, workers put a block into the pyramid every three minutes.
- The workers, Egyptian men and women, worked in **teams**. The teams had different jobs. Some **dug** up the stones. Others moved them. Another team **cut** the stones. The last group put the stones into the pyramid.
- Even though there were so many different teams, the pyramid is **perfect**. No stone is in the wrong place. But how did the Egyptians move those huge stones to the top? No one knows for sure. Some things are still a **mystery**.

Zahi Hawass (far right) is an Egyptian archeologist—he studies people of the past.





#### **Reading Comprehension**

A	Circle the corre	ct answer.				
Main Idea	1. The main ide	a of the third paragraph is	the builders worked.			
	a. why	<b>b.</b> how	c. when			
Reference	2. In line 8, the	word <b>they</b> refers to				
	a. buses	b. workers	c. blocks			
Detail	3. How many b	locks did the workers put in	nto the pyramid every hour?			
	<b>a.</b> 1	<b>b.</b> 5	<b>c.</b> 20			
Sequence	4. Which of the	following happened last?				
	<b>b.</b> Egyptians	the blocks into the pyrami moved the blocks up the p ut the stones into blocks.				
В	Strategy: Note words from the		e the notes below with one or two			
	The Great Millions of pe	Pyramid ople (1)	_ every year.			
		)years				
		Control of the Contro	than any other building.			
	The blocks					
		of to	nem.			
		avy as five (5)				
	One put in the pyramid every (6)					
	The workers	s de la constant de l				
	They worked	/-\	ch with a different job.			
	Some dug up		nd others moved them.			
	Another team		hem before they were put in the pyran			

Every stone is in the right place - the pyramid is (10) but how they moved the stones to the top is still (11) \_

The pyramid today.

#### **Language Practice**

Vocabulary: Words in context. In each The words in blue are from the reading.	h sentence, circle	the best answer.
1. A mystery is something	a. no one knows	<b>b.</b> all people know
2. A huge pyramid is very	a. small	b. big
3. When something is popular,		¹a shovel
people love it.	a. few	<b>b.</b> many
4. A team sport has person.	a. one	b. more than one
5. A perfect thing has problems.	a. no	<b>b.</b> some
6. You use a to dig.	a. shovel1	b. bag <sup>2</sup> glue
7. We use to <b>cut</b> .	a. a knife	<b>b.</b> glue <sup>2</sup>
8. When you travel around the world,		
you travel to	a. safe places	<ul><li>b. many different countries</li></ul>
b. Mount Merapi erupted on October 25. Mount Merapi, a volcano in Indones		
to make one sentence. (adv.) ext	ular with: remely popular, most popu	ılar, <b>wildly</b> popular ne, popular music, popular movie
The Nile is the longest river in the world     Zahi Hawass is Egyptian. He is an arch		pt.
	*	
3.		



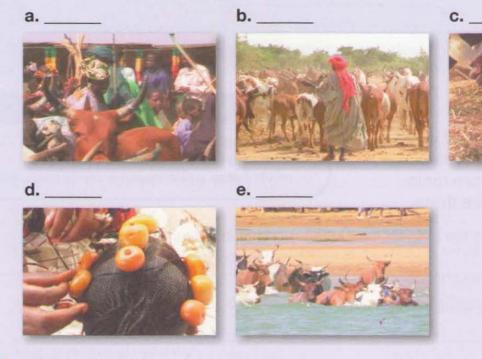
## **An Amazing Trip**



A Preview. You will hear these words in the video. Use the words to complete the sentences.

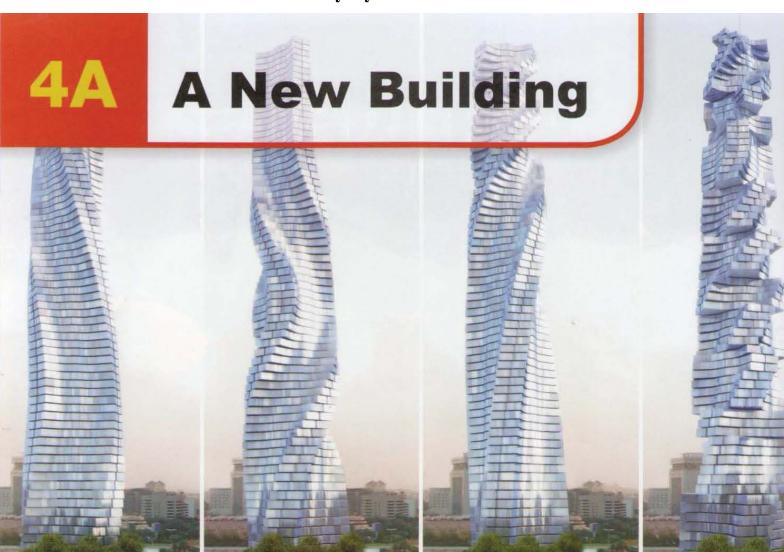
	adult journey m	arry thirsty tribe
1.	When you grow up, yo	u become a(n)
2.	Most people in the U.S they will	S. choose for themselves the person
3.	The Fulani	_ lives in villages near the desert.
4.	When you go on a(n) _ usually far away.	, you travel from one place to another,
=	Someone who is	feels like they need to drink something.

As you watch. Number the events in the correct order, 1-5.



C Think about it. How are the Fulani culture and your culture different? How are they the same?





#### **Before You Read**

- A Discussion. Look at the photos of the building above. What is special about it? Discuss with a partner.
  - **B** Definitions. Match the words with their meanings.

i. speed	Z. Shapes	3. SIOW	4. energy	
5. machine	6. sound (v.)	7. impossible	8. human	
a.			e. When things go	ood, they
b. so	omething like a compu	ter or a car	seem to be good.	
	hen something is an do it.	, no one	<b>f.</b> The of something fast it moves.	ng is hov
d. E	very man, woman, and	d child ——	g. not fast	
	a(n)	1.5	h. the power or strength	

to do things

#### Reading

Strategy: Scanning.

Who had the idea for this building?

The architect wants to build the new building in Dubai. This is the view from the top of Dubai's tallest building.



## The Building That MOVE

Everyone knows that buildings don't move. They can't change the way they look. However, architect¹ David Fisher wants to change that.

Fisher has an amazing idea. He wants to make **80-story** buildings that change **shape**. Each floor will move around **slowly**. The floors will move at different **speeds**. Because of this, the shape of the building is always changing. "These buildings will never look the same," says Fisher.

His idea is an interesting one. However, Fisher doesn't stop there. He also wants the building to be "green." The building will make its own **energy**. In most buildings, only the top floor has a roof. In Fisher's building, each floor will have its own roof.

The roofs each have solar panels. This means a lot more solar energy. Also, **machines** between each floor of the building will catch the wind. They will turn the wind into energy.

Fisher's ideas **sound impossible**. However, that's what people also said before **humans** traveled into space!

- <sup>1</sup> An architect designs buildings.
- <sup>2</sup> green: good for the environment
- 3,4 a roof with ▶ solar panels



#### **Reading Comprehension** A Circle the correct answer. **Gist** 1. Another title for this reading is \_\_\_\_\_. a. A Building for the Future b. The Life of an Architect c. How Green Buildings Work Vocabulary 2. In line 3, 80-story means the building has 80 \_\_\_\_\_. b. floors c. different speeds a. shapes **Detail 3.** Fisher's building makes a lot of solar energy because the building \_\_\_\_\_. a. is always moving b. is very tall c. has many solar panels Purpose 4. Why does the writer say "that's what people also said before humans traveled into space!" a. to show why Fisher's building will never work b. to show why Fisher's building is like a spaceship c. to show that unusual ideas can sometimes work **Strategies: Diagram labeling.** Look at the picture below. Complete the labels using words from the passage. 2. Each floor 1. On each slowly. are solar panels. 3. Three of the building. 4. Machines turn into energy. 50 Unit 4 Big Ideas

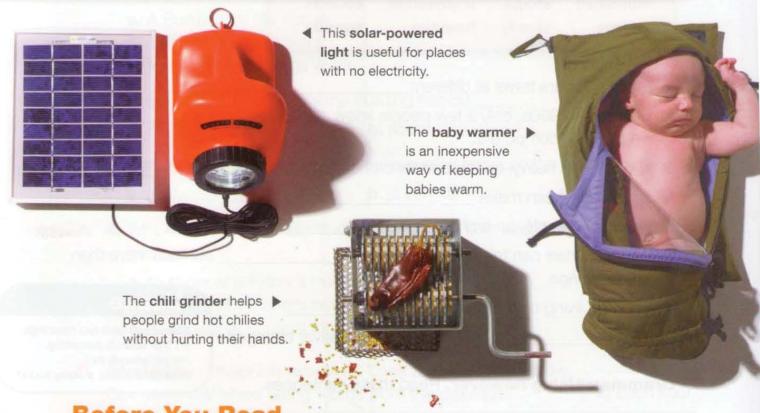
#### **Language Practice**

A Vocabulary: Completion. Complete the sentences using a word from the box.

	machines shape impossible sounds energy slowly humans speeds
1.	Bikes and cars travel at different
2.	Before the 1950s, only a few people knew about the we now call computers.
3.	The tea was heavy, so the porters carried it up the mountain very
4.	Solar panels can make from the sun.
	For many people, an architect's job very hard.
6.	Some animals can talk a little, but only can use more than one language.
7.	For now, living on Mars is still Usage
8.	The of most buildings never changes.  Sound can have two meanings.  (v.) That sounds interesting.  Her job sounds fun!  (n.) a loud sound, a poisy sound.
Gi	rammar: Using however. Read these sentences.
a.	Fisher's ideas sound impossible, but that's what people also said before humans traveled into space.
b.	Fisher's ideas sound impossible. <b>However</b> , that's what people also said before humans traveled into space.
W	rite a second sentence to finish each idea. Use however.
1.	The scientists told the people near the volcano to leave their homes.
2.	The Great Pyramid is more than 4,000 years old.
3.	Fisher's building sounds very interesting.
4.	Many people love grizzly bears.



## Big Ideas, Small Sizes



#### **Before You Read**

- Discussion. Some good designs can help people around the world. Look at the pictures. Why are these inventions good? Talk about your ideas with a partner.
- **Definitions.** Match the words with their meanings.

1. probably 2. both 3. clean 4. ro	11 5. sick 6. easy 7. last (v.) 8. repeat
a. «	е.
b. do again	f. two things
c. not dirty	g. not hard to do
d. When something will happen, it is likely to happen.	, they don't stop or break.

#### Reading

**Strategy: Skimming.** Quickly read the passage. Who are these inventions for? Tell a partner.

- a. people without clean water
- b. people in the U.S.
- c. people with a lot of money

## Making It Safe

Do you drink water every day? Is it clean? You **probably** answered yes to **both** questions. But 900 million people around the world don't have safe drinking water. Without **clean** water, they get **sick** more easily. That's why these two ideas are so great! They can

That's why these two ideas are so great! They can make a big difference for a lot of people.

#### The LifeStraw

This straw cleans water when you drink through it. It is small and **easy** to carry. You can get clean water anywhere you go. It **lasts** over six months for most people. You don't have to worry about getting a new **one** often.

#### The Q Drum

This new **container** helps people
carry clean water to their homes.
In rural places, people often have
to walk to get clean water. Then
they have to carry it back to their
homes. They **repeat** this every
time they need water, but water is
heavy! You don't have to lift the
Q Drum. You can **roll** it home.
No more carrying 50 kilograms
of water!



#### **Reading Comprehension**

A Circle the correct answer.

Detail 1. The passage says that 900 million people \_\_\_\_\_

The passage says that see Timber people \_\_\_\_

a. need clean water b. use the LifeStraw

c. carry water to their homes

Reference 2. In line 12, the word one refers to \_\_\_\_\_.

III lille 12, the word **one** releas to \_\_\_\_

a. a strawb. a container

o. a container c. water

Vocabulary 3. Which of these is a container (line 14)?

a. a chair b. a box

c. a knife

Inference 4. The writer probably thinks \_\_\_\_\_.

a. carrying water is very easy for most people

b. the straw is more useful than the container

c. most people don't really think about their water

B Strategy: Classification. Which invention(s) do these sentences describe. Write a to f in the correct place.

a. It helps people have clean water.

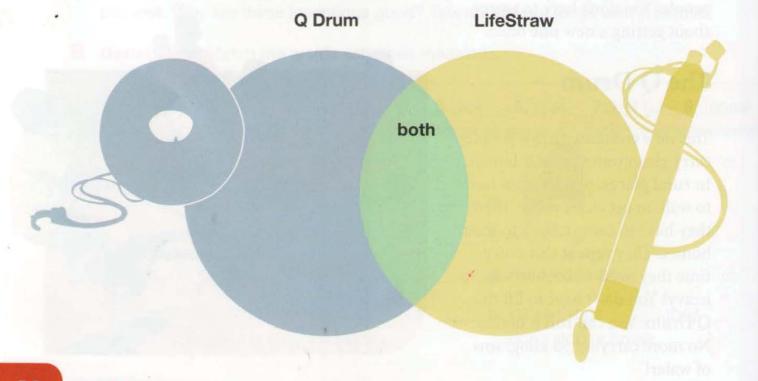
d. It is heavy, but you can roll it.

b. You can carry it.

e. It helps people take water to their homes.

c. It's easy to use.

f. It helps people not get sick.



#### **Language Practice**

1	Vocabulary: Words in context. Share your answers v	vith your partner.
	1. What are some times when you repeat what someone	e says?
	2. What are some things you can roll?	
	3. What do you think is popular now but <b>probably</b> won't	be popular in a year?
	4. What do you do when you are sick?	relightpole
	5. What do both your mother and father like to do?	
	6. Do you think studying English is easy?	PROPERTY.
	7. Give an example of something that lasts more than a y	/ear.
	8. How often do you clean your room?	
1	Grammar: have to / don't have to. Read these sente	ences from the passage.
	<ul> <li>a. You don't have to worry about getting a new one soo</li> <li>b. In rural places, people often have to walk to get clean</li> <li>c. Then they have to carry it back to their homes.</li> </ul>	
	d. You don't have to lift the Q Drum.	Usage
1	Complete each sentence using have to / don't have to so they are true for you. Compare answers with a partner.	Use have to / don't have to with I, you, we, or they. Use has to / doesn't have to with he, she, or it.
	1.   walk	to school every day.
	2. I make my c	
	3. On Sunday, I	
	4. In my English class, we	

55



**Solar Cooking** 

A Preview. Look at the pictures and label the different ways of cooking food.

electricity solar energy

gas wood fire









2

3 \_\_\_\_

4

B As you watch. Choose True (T) or False (F) for each sentence.

- Bob Metcalf is a cook.
   SCI shows people how to use solar energy.
   F
- When the WAPI's wax melts, people can drink the water.T
  F
- Before solar cookers, most of the women in the video cooked using gas.

  T
  F

C Think about it. How is solar cooking better for the Earth than other ways of cooking?

## 2

#### **Vocabulary Review**

Review

Words in context. Unscramble the underlined words. Then use them to complete the sentences.

1. We need a <a href="hamicen">hamicen</a> to help us <a href="filt">flit</a> this <a href="hamicen">vahey</a> box.		
	We need a to help us this box.	
2.	My sister loves to <u>letvar</u> . Her next <u>prit</u> will <u>pobbalry</u> be to China.	
	My sister loves to be to China.	
3.	It is yase to scors the river ungrid the dry season.	
	It istothe river the dry season.	
4.	hoBt soccer maste play games ronuda the world.	
	soccer play games the world.	
5.	It was <b>bosimipels</b> to <b>lorl</b> the <b>ugeh</b> rock up the hill.	
	It was to the rock up the hill.	

#### **World Heritage Notes**

**Notes Completion.** Scan the information on pages 58 and 59 to complete the notes.



What: The Great Wall of China

Where: China

Data:

	It is known to the Chinese people as the	Long Wall of
	China's first emperor	_ brought together many
	of the original wall pieces.	
lo.	At first, the wall was built of stone, _	grass,
	and	
	P P P	1 . 1 1 0 . 1 0 . 1 111

- Every year, about \_\_\_\_\_ tourists visit China's Great Wall.
- The leaders of the Zhou tribe built small walls to protect their land from from the north.
- During the Ming dynasty, the Ming kings also added \_\_\_\_\_\_ along the wall for soldiers to live in.

## The Great Wall of China

Site: The Great Wall of China

Location: China

Category: Cultural

Status: World Heritage Site since 1987

# Shanhaiguen Shanhaiguen Bettinn of the Greek Well Bettinn of the Greek Well

#### 770-476 B.C.

The leaders of the Zhou tribe built small walls along China's northern border to protect their land from warrior¹ tribes from the north. These walls were made of earth and were only two meters high.

A warrior is a fighter or soldier. He or she is good at fighting.

#### 475-221 B.C.

4位集下榜手提等的对象的知识下量的

At this time, seven different tribes were fighting each other for land and power in China. Each ruler built small walls to protect themselves. Some of the rulers also built more walls to the north, to keep their enemies out of China.

#### 221-207 B.C.

Emperor Qin Shi
Huang brought the
seven tribes together
and became the first
emperor of China.
He joined up all the
small walls that were
already built, and
also built over 5,000
kilometers (about
3,000 miles) of new
wall across the land.

#### 206 B.C.-A.D. 220

The emperors of the Han dynasty<sup>2</sup> worked to make the Great Wall stronger. They also made it longer, so that it went all the way to the edge of the Gobi desert.

<sup>2</sup> A dynasty is a line of rulers of a country all from one family.

770-476 B.C.

475-221 B.C.

221-207 B.C.

206 B.C

The Great Wall of China is famous for being the largest man-made structure in the world. It is known to the Chinese people as the Long Wall of Ten Thousand Li. One li is about half a kilometer. Many people think the Great Wall of China is just one long wall. But today's Great Wall is really a collection of different sections of wall built in different places.

At first, the wall was built of stone, wood, grass, and earth. In later years, the builders used bricks to make the old walls stronger and make new walls last longer. These pieces of wall were built part by part, by different rulers, over 2,000 years. China's first emperor, Qin Shi Huang, brought together many of the original wall pieces into one wall.

Today, many parts of the wall are gone. About 50 percent of the original ancient structure is not there anymore. But the parts still standing are some of China's most popular tourist sites. Each year, about ten million tourists visit China's Great Wall, making it the world's largest outdoor museum.

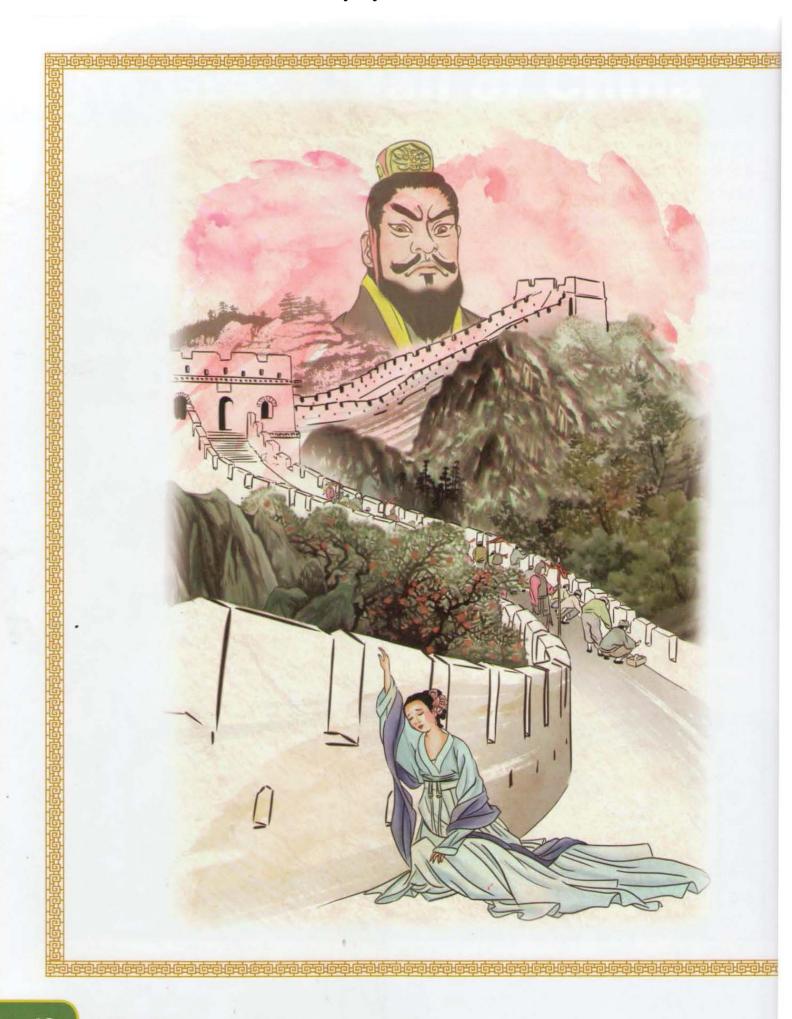
#### A.D. 1368-1644

The emperors of the Ming dynasty rebuilt many parts of the old wall that were falling down. They also made it even longer, more than 6,700 kilometers (4,100 miles) long. The Ming emperors also added towers for guards to watch from and houses along the wall for the soldiers to live in.

AD. 220

A.D. 1368-1644

Today



### A CHINESE FOLKTALE

## MENG CHIANG-NU AND THE GREAT WALL

- Thousands of years ago, in China, there was an emperor, Shi Huang. He made people from all over China work on the Great Wall. The work was long and hard. Many workers died.
- A beautiful woman, Meng Chiang-nu, lived with her husband in a small village. Her husband had to go north to work on the Great Wall. It was very, very cold in the north. He was gone for many months.
  - One day, Meng Chiang-nu went to find her husband. She walked for days and days. She walked across rivers and mountains. Finally, she reached the Great Wall. "Where is my husband?" she asked.
- "Oh, he died long ago," a man said. "We buried him here, by the Wall." Meng Chiang-nu cried. She cried for days, and many people cried with her. Their tears made a river 300 meters long. They cried so hard that a part of the wall fell down.
- When the emperor heard about the woman, he came to see what had happened. He saw her crying, and fell in love with her. "Will you marry me?" he asked. "I will marry you," Meng Chiang-nu said. "But first, you must build a tomb¹ for my husband." The emperor agreed.
- When the tomb was finished, Meng Chiang-nu wouldn't marry the emperor. She jumped into the river. "Catch her! Catch her!" the emperor **shouted**. But Meng Chiang-nu became a beautiful silver fish. She swam away, into the greenblue water.

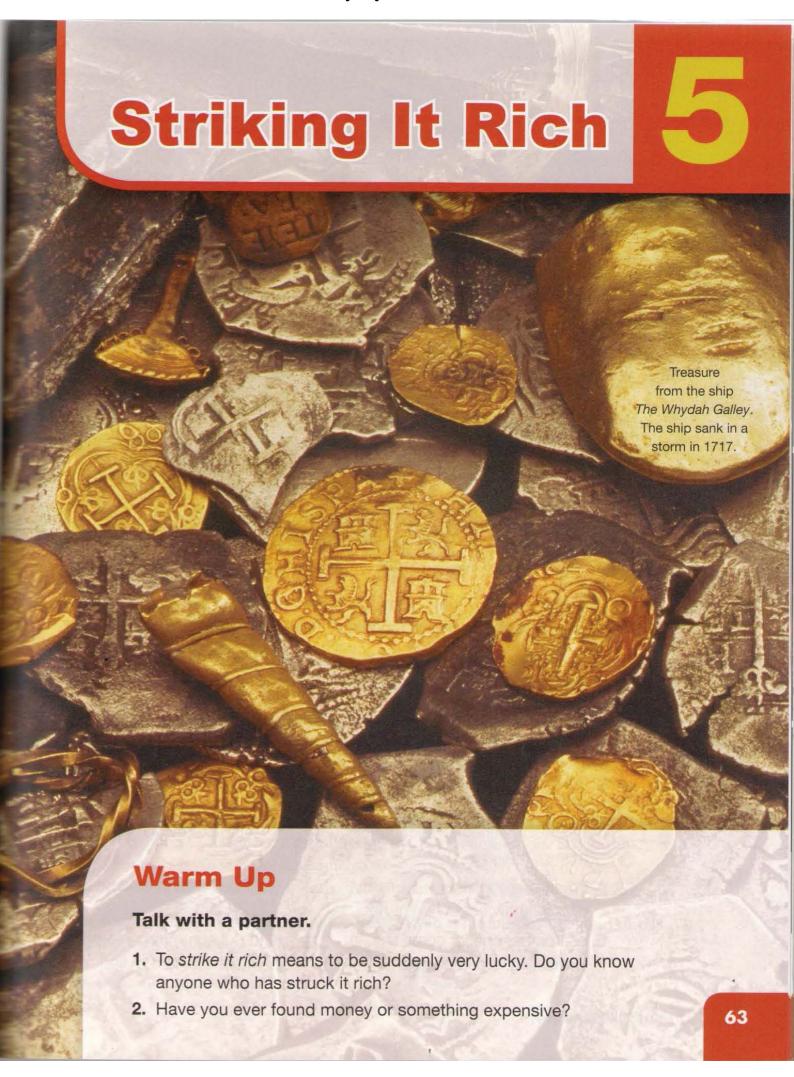
<sup>1</sup> A tomb is a place or building for a dead person.

#### **Reading Comprehension**

	C	ircle the correct answ	ver.		
Detail	1.	<ul> <li>a. to find her husbar</li> <li>b. her husband aske</li> <li>c. to work on the W</li> </ul>	nd ed her to	vel to the Great Wall o	f China?
Inference	2.	Which word describe	es Meng		Great Wall?
		a. easy		<b>b.</b> hard	c. impossible
Detail	3.	what made part of the workers' should be Meng Chiang-nu's c. the workers hit it,	uting mad s crying b	le it fall down prought it down	Thousand a real and a
cabulary	4. In line 19, what does shouted mean?				
		a. said loudly		<b>b.</b> said softly	c. asked
	Vocabulary Extension				
	A	Vocabulary: Collo on the right.	cation.	Match the verbs on t	he left with the objects
		1. carry o	o a	a ball	
		0 0x000	. 1.	= 1	

- carry
   a. a ball
   cross
   b. a box
   cut
   c. a cake
   dig
   d. a hole
   repeat
   e. a river
   roll
   f. a word
- B Complete the sentences using the phrases you made in A.

1. Before	you put a new plant in your ga	rden, you need to
2. From the	ne top of a hill, you can	down to the bottom.
3. To go from south London to north London, you have to		
4. You ca	n of boo	ks to the library.
5. Studen	ts often have to	many times to learn it.
6. At a bir	thday party, you usually	into several pieces.





▲ a lottery ticket seller in Rangoon, Burma

6. lucky

**7.** win

8. rich

#### **Before You Read**

1. famous

A Discussion. Have you ever won anything? Tell your partner.

3. escape

B Definitions. Match the words with their meanings.

2. hide

-	a. get away from a place or person you don't like	e. information about things that have just happened
-	b. When someone has a lot of	f. lastly, after a long time g. Someone is when good
	c. When someone is, many people know about him or her.	things happen to them by chance.
_	d. be number one, or come first, in	h. to put something in a place

4. finally

5. news

#### www.yahyasoliman.com



#### Reading

Sheelah Ryan (right) meets friends after winning the lottery. Sheelah Ryan didn't get all her money at one time. The prize was \$2,767,361 every year for 20 years.

**Strategy: Predicting.** This passage is about a lottery winner. Check (✓) the things you think she did with her money.

	took	а	trip	
$\overline{}$		~		

bought more lottery tickets

bought a new house

helped other people



Does money make people happy? Some people think so, but read about Sheelah Ryan.

Ryan often bought lottery tickets but wasn't **lucky**. Then, one day, she got some amazing **news**. She **won** \$55 million, and she was suddenly **famous**.

In that one day, her life changed. People knew she was **rich**, so over 750,000 people wrote letters to her. They were all asking for money. News reporters¹ wanted to talk to her. She couldn't get away from **them**. She **finally** moved to a new house so she could **escape**.



a news reporter

The story doesn't end there, though. Ryan didn't just hide from everyone.

With the money, she started a group called the Ryan Foundation. The foundation helps students go to college. It also helps women and small children. When they can't pay their rent<sup>2</sup> one month, the foundation helps them pay it.

The foundation is still helping people. Today, Ryan is famous for the good things she did with her money.

<sup>&</sup>lt;sup>2</sup> Rent is money you pay to live in a house.

#### **Reading Comprehension**

#### A Circle the correct answer.

- Detail 1. Who does the Ryan Foundation help with their rent?
  - a. lottery winners
- b. news reporters
- c. women and children

- Purpose 2. The purpose of the fourth paragraph (from line 9) is to tell us \_\_\_\_\_.
  - a. why Sheelah was unhappy
  - b. how Sheelah used her money
  - c. where Sheelah went after she won

- Main Idea 3. What could be another title for this passage?
  - a. How Lotteries Work
  - b. How to Win a Lottery
  - c. Using Her Luck to Help People

- **Detail 4.** What did NOT happen after Sheelah won her money?
  - a. Reporters asked her questions.
  - b. She moved to another house.
  - c. She wrote a lot of letters.

#### B Strategy: Sequencing. Number the events in order from 1 to 5.

- a. \_\_\_\_ Sheelah bought lottery tickets and won.
- b. \_\_\_\_ People wanted money from Sheelah.
- c. \_\_\_\_ Sheelah started the Ryan Foundation.
- **d.** \_\_\_\_ Sheelah bought lottery tickets but didn't win.
- e. \_\_\_\_ Sheelah became famous for doing good things.

Some lotteries use balls to choose winning numbers.

#### Use luck with:

(adj.) good luck, bad luck

(v.) bring someone luck, need a little/some luck, wish someone luck, have good/bad luck

#### **Language Practice**

•	щ	guage Practice					
	Vo	cabulary: Words in context	Circle the best answer.				
		Parents often a present¹ a. hide		900			
	2.	Rich people  a. can buy a lot of things	b. don't have much money				
	3.	You can read news  a. in a book	<b>b.</b> on the Internet				
	4.	Which of these do people som a. a tiger	etimes want to escape from?  b. a lottery				
	5.	When you buy a lottery ticket, y a. lucky	you want to be <b>b.</b> cut	¹ a presen			
	6.	The pyramids in Egypt area. final	around the world. <b>b.</b> famous				
	7.	Most sports teams want to a. win	b. escape				
	8.	When something finally happer a. long	b. very short				
	Gr	ammar: Past continuous. R	Read these sentences.				
	a.	They were all asking for mone	еу.				
	bí.	As the reporters were walking down the mountain, the volcano started to erupt.					
		e sentences below all have mis	stakes. Write the sentences,				
	1.	1. lan's dad is taking pictures when he saw an elephant.					
	2.	The porters was carrying tea when it started to snow.					
	3.	The workers were putting a blo	ock into the pyramid every three mir	nutes.			

4. Mount Merapi was smoking, so all of the people were leaving their homes.



#### **Before You Read**

- ▲ Two treasure hunters in Mexico show a plate from a sunken ship.
- Discussion. Do you have anything very old? Is it worth a lot of money? Talk with your partner.
- B Definitions. Match the words with their meanings.
- 1. find out 2. worth 3. expert 4. plan 5. laugh 6. special 7. sell 8. item a. have an idea to do something e. let someone have something for money b. what you do when something is funny f. one thing c. learn, discover something g. important to a person h. how much money something d. a person knowing a lot about something can be sold for

#### Reading

**Strategy: Scanning.** What is the name of the ship the menu is from?

Read and check your answer.

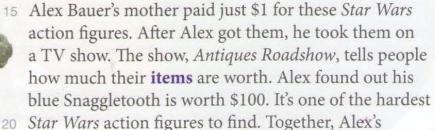
## Old But VALUABLE

The next time you find something unusual, look again. Maybe it's worth more than you think!

Look closely at this menu. Why do you think it is **special**? This menu is from the famous ship, the *Titanic*. It's from the *Titanic*'s final lunch before it sank. In 1971, the menu was on the back of a \$45 painting. Fred Kelly bought the painting and menu. He didn't think about it very much. Then in 1998, the movie *Titanic* 

became very popular. Fred's wife thought maybe the menu was worth up to \$5,000. They took it to an **expert**—and **found out** it was **worth** \$65,000! She **laughed**.

Star Wars action figures



figures are worth \$250-\$300! He doesn't **plan** to **sell them**, at least not right now.





#### **Reading Comprehension**

A Circle the correct answer.

**Inference** 1. What was NOT true about the painting?

a. It had a menu on the back. b. Fred Kelly painted it. c. Fred bought it in 1971.

Detail 2. Who thought the menu was worth up to \$5,000 in 1998?

a. Fred

b. Fred's wife

c. an expert

Reference 3. On line 22, the word them refers to the \_\_\_\_\_.

a. TV shows

**b.** people on the show - **c.** action figures

Detail 4. The blue Snaggletooth is worth more than other figures because it \_\_\_\_\_.

a. was on a TV show

b. is very big

c. is difficult to find

B Strategy: Classification. Which item(s) do these sentences describe? Write a to e in the correct place.

It was/They were \_\_\_\_.

a. worth more than the buyer thought

b. worth thousands of dollars

c. more than 50 years old. d. a present from someone

e. on TV

action

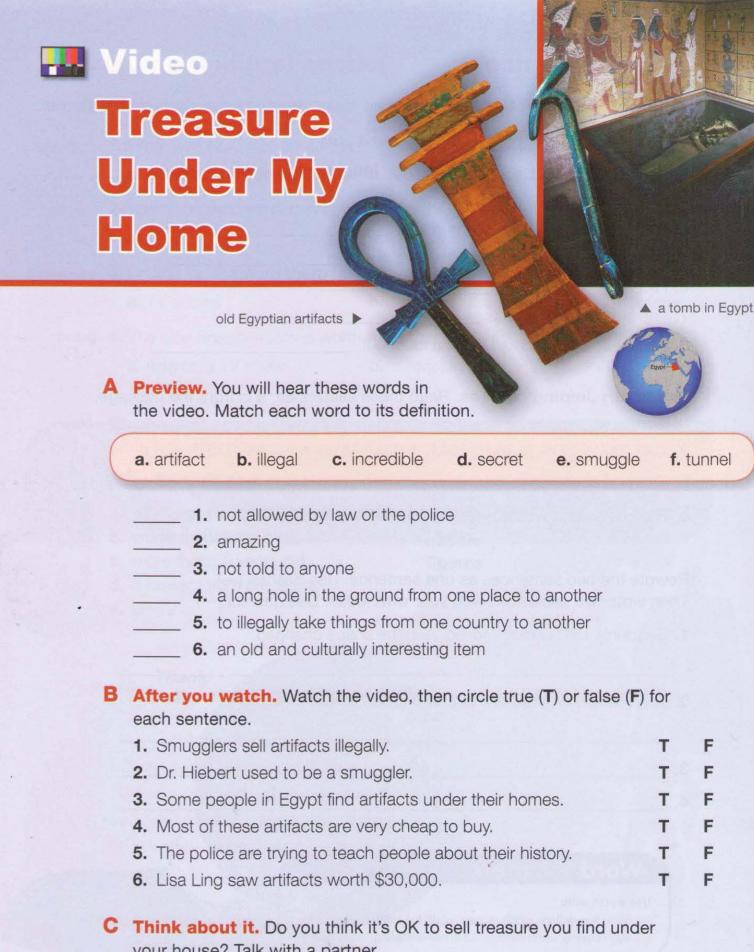
figures



both

#### **Language Practice**

A	Vocabulary: Completion. Use your own ideas. Share your answers with a partner
	1.   plan to next year.
	2. My always laughs when
	3. Right now, I don't want to sell my
	4 is worth
	5. The best way to find out something is
	6. I think is special.
	7. The oldest item I own is
	3. I'm not an expert, but I know a lot about
3	Grammar: Joining clauses. Read these sentences; a is from the passage.
	a. They took it to an expert—and found out it was worth \$65,000!
	. This was the volcano Arne went into—and now it was our turn to go inside!
	These men and women—called porters—carried tea on their backs.
	Rewrite the two sentences as one sentence. Use dashes (-). Then write two sentences with your own ideas. Use dashes (-).
	: Suddenly, the building moved. And the shape changed.
	The volcano erupted last year. It is called Mount Merapi.
	Word Partners
	Use worth with:  (n.) worth five dollars, worth money, worth the trouble, worth a try  (v.) worth buying, worth having, worth remembering, worth doing



your house? Talk with a partner.

## Killer Plants

6



#### Warm Up

bees and other insects for food.

#### Talk with a partner.

- 1. Can plants eat? Do they drink?
- 2. Do you know the names of any famous scientists? Who are they?

## **Beautiful but Deadly**



The Venus flytrap is carnivorous (it eats meat). There are over 675 kinds of carnivorous plants in the world.



#### **Before You Read**

- A Quiz. What do you know about carnivorous plants? Circle True or False for the sentences below. Then check your answers at the bottom of the page.
  - Carnivorous plants eat insects.

True

False

2. Carnivorous plants only live in hot places.

True

**False** 

3. All carnivorous plants have "teeth" to catch food.

True

False

- **Definitions.** Match the words with their meanings.
  - 1. die 2. fall

3. ready 4. close (v.) 5. touch 6. cover (v.) 7. land (v.) 8. nice

- a. to feel
- \_\_\_\_e. put something on top of another thing
- \_\_\_\_ b. the opposite of open
- \_\_\_\_\_f. good
- c. OK to do something now
- \_\_\_\_ g. suddenly move down from a high place
- d. to stop on the ground after flying

have teeth, but plants like sundews and pitcher plants do not. 1. T 2. F. Carnivorous plants live around the world. 3. F. Venus flytraps

#### Reading

Strategy: Scanning. How many ways of catching insects does the passage talk about?

## Plants That Eat Insects

The next time you see an insect on a plant, watch closely. It may be that plant's lunch!

A fly lands on a Venus flytrap. It touches
the flytrap's very small hairs twice. In less
than a second, the flytrap closes. There
is no time for the fly to escape. After the
flytrap closes, the teeth make a cage.<sup>2</sup> The
flytrap slowly eats the insect over the next
10 days. Then it opens again. It's ready to
catch its next meal!

An insect wants something to drink. It lands on this beautiful Australian sundew. The "water" sticks to the insect, and it can't escape. Slowly, the plant covers the insect with a liquid. The bug slowly dies.

What's that **nice** smell? Insects like the smell, too, so they land on this pitcher plant. It's slippery,<sup>3</sup> and the bugs **fall** in.

20 The inside of the pitcher plant is slippery, so the insects cannot climb out. Slowly, the plant kills them.

<sup>1</sup> Lunch is the food you eat in the middle of the day.





#### A Circle the correct answer.

- Gist 1. The reading is mainly about \_
- a. insects eating plants b. insects eating bugs c. plants eating insects
- Reference 2. In line 14, the word it refers to the \_\_\_\_\_.
  - a. water

- **b.** sundew
- c. insect

- Vocabulary 3. We can change bug (line 16) with \_\_\_\_\_.
  - a. sundew

- **b.** insect
- c. plant

- **Sequence 4.** Which of the following happens first?
  - a. The flytrap eats the bug.
  - b. The flytrap makes a cage.
  - c. The insect touches the flytrap's hairs.

#### B Strategy: Classification.

According to the article, which plant(s) do these sentences describe?

- a. It eats bugs.
- b. Insects think they can get a drink from it.
- c. Bugs land on it because of its smell.
- d. It is sticky.
- e. Insects can't escape from it.
- f. It closes to catch insects.
- g. It is slippery.





pitcher plant

#### **Language Practice**

Vocabulary: Word	s in context. Circle the correc	t answers.
	off their bikes¹ when they are b. fall	e young.
2. When you say "The you say someone a. good	nat looks <b>nice</b> on you," looks <b>b.</b> bad	¹a bike
3. Which of these do	you usually use to <b>touch</b> some <b>b.</b> water	ething?
<ol> <li>Which of these ca</li> <li>a. a door<sup>2</sup></li> </ol>	n you <b>close</b> ? <b>b.</b> an insect	
5. Which of these land a. an airplane	nds at the end of a trip?  b. a car	²a door
Which of these ca     a. a bird	<b>b.</b> a rock	Usage
	<b>b.</b> can't	Close can have two meanings:  1. (v.) /klōz/ the opposite of open, e.g. Close the door!  2. (prep.) /klōs/ near, e.g. My
a. a pot	you <b>cover</b> most often? <b>b.</b> an airplane	house is close to my school.
Grammar: Describe is from the passage	<b>oing a sequence.</b> Read these e.	sentences;
	Then the teeth make a cage.	
b. After the flytrap ci	oses, the teeth make a cage.	
Rewrite the two sent with your own ideas.	ences using <b>after</b> . Then write t	wo more sentences
1. The flytrap eats the	insect. Then it opens again.	
2. The workers finished	d one pyramid. Then they started	another.
3	while owner of the same of the	

# A Plant Experiment A sundew catches a fly. **Before You Read** Charles Darwin > A Discussion. What do you was a British scientist.

know about Charles Darwin? Tell a partner.

**Definitions.** Match the words with their meanings.

He lived from 1809 to 1882. He studied plants and animals. and did many experiments.1

1. body

2. carefully

3. center

4. decide

5. examine

6. later

7. several

8. toward

\_\_\_\_ e. to look at a lot, to study

\_\_\_ b. the whole person or animal, with arms. legs, and head

a. the middle

g. to choose

c. at a time after

h. slowly and with no mistakes

\_\_\_\_ f. a few, more than two

<sup>1</sup> An **experiment** is a scientific test to find out something.

d. to, in the direction of

#### Reading

**Strategy: Skimming.** The reading is about some of Charles Darwin's experiments. Was he mainly interested in insects or plants? Tell a partner.

## Darwin's Diary

- Can plants kill flies? In the summer, I found sundew plants with many insects on them. I decided to examine them more carefully. I examined 12 plants, and I found 31 dead insects, or parts of their bodies.
- Some leaves caught several insects. The sundew plant catches flies much more often than other insects. I want to do some experiments. I don't know what I'll find out.

#### Experiment 1

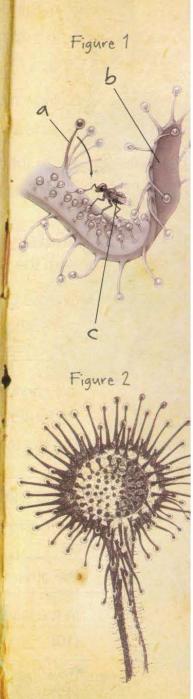
- The "tentacles" always moved toward the items.
  The speed was not always the same. Why?
- Experiment 2

I found a leaf with a fly on it. The fly could not escape. The fly was on one side of the leaf. The tentacles on that side closed around the fly and killed it. The tentacles from the other side of the leaf never moved!



#### Experiment 3

I put a dead fly in the center of a leaf.
The next morning, the leaf was closed.
It opened again five days later. There was



A Circle the correct answer.

Detail	1.	What	did	Darwin	learn'
--------	----	------	-----	--------	--------

- a. Sundews can move to catch insects.
- b. Sundews can finish eating an insect in one day.
- c. Sundew tentacles all move at the same speed.

Vocabulary	2.	In this drawing	from the diary, the plant's	"tentacles"	are
		<b>a.</b> a	<b>b</b> b		• •

- Inference 3. How many whole insects did Darwin find on the 12 plants?

  a. fewer than 31

  b. 31

  c. more than 31
- Prediction 4. On the next page of the diary, we can probably read "[There was] \_\_\_\_\_."
  a. no fly
  b. a dead fly
  c. a living fly
  - **B** Strategy: Summary completion. Complete the summary using words from the passage.

Charles Darwin looked at 12 (1)_	plants, and found
many (2)	_ bugs. After this, he decided to do
(3) diffe	rent experiments.
In Experiment 1, he put items in t	the middle of a (4)

He found that the tentacles moved (5) \_\_\_\_\_\_\_

But the tentacles didn't all move at the same

(6) \_\_\_\_\_\_. In Experiment 2, he found a leaf with (7) \_\_\_\_\_\_ on it. He saw that the tentacles near the bug

(8) \_\_\_\_\_\_ it, but the ones on the other side (9) \_\_\_\_\_.

In the last experiment, he put

(10) \_\_\_\_\_ on a
leaf. A day later, he saw the leaf was

(11) \_\_\_\_\_. Then five days
later it (12) \_\_\_\_.



sundews in Europe

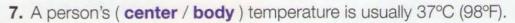
#### **Language Practice**

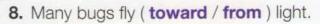
### A Vocabulary: Words in context. Circle the best word in each sentence.



¹a donut

- 1. Later means (before / after) a time.
- 2. Donuts¹ have a hole in their (center / body).
- 3. Doctors<sup>2</sup> (examine / decide) sick people.
- 4. Some people have several (legs / brothers).
- 5. Nurses³ (have / don't have) to be careful in their work.
- When you get a pet cat, you need to (examine / decide) what its name will be.







<sup>2</sup>a doctor

- **B** Grammar: Making predictions. Read these sentences; **a** is from the passage.
  - a. I don't know what I'll find out.
  - **b.** There will be more cars in the future.



Complete the sentences with your ideas. Then write two more sentences with your own ideas. Compare answers with a partner.

1.	Six months from now, I'll
2.	In 10 years, people around the world will probably
3.	In 100 years, people
4.	
5.	

#### Word Link

-ful = filled with beautiful, colorful, careful











- 1.
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4.

- a. It eats the fruit so the seed falls.
- b. It's food for the plant.
- c. It eats smaller animals.
- d. It takes pollen to other flowers.
- C Think about it. Are there other ways animals and plants need each other?

## Review

#### **Vocabulary Review**

Opposites. Match the words with their opposites.

- 1. hide

- 2. win •
- 3. rich
- 4. laugh
- 5. sell o
- **6.** die
- 7. close
- 8. toward

- 9. escape

- away
- b. buy
- c. catch
- d. cry
- o e. live
  - f. lose
- g. open
- h. poor
- o i. show



#### **World Heritage Notes**

Notes Completion. Scan the information on pages 84 and 85 to complete the notes.

What: Central Amazon Conservation Complex

Where:

Data:

- - The \_\_\_\_\_ is the biggest river in the world.
  - The Amazon rain forest makes \_\_\_\_\_ of the world's oxygen.
    - offers and poison
  - frogs live there.

• There are

- animals in the Amazon rain forest.
- · Many of the animals and plants in the Amazon are



of different kinds of plants and

## **Central Amazon**

**Site: Central Amazon Conservation Complex** 

Location: South America

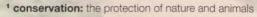
Category: Natural

Status: World Heritage Site since 2000

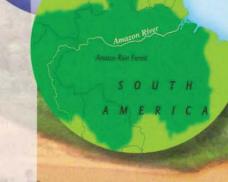
The Amazon rain forest is the largest rain forest in the world. More than half of all the rain forests left on Earth are there. The area covers about two thirds of the South American continent. It covers parts of nine different countries, including Brazil, Colombia, and Peru. This big forest makes up to 20% of the world's oxygen for us to breathe.

The Amazon rain forest is a place of giant things. The jaguar—the biggest of the American big cats—and the largest otter live in the Amazon. The mighty Amazon River runs through the forest. It is the largest river on Earth. The water from the river helps millions of kinds of plants and animals to live and grow. Many of these animals and plants are endangered.

The Central Amazon Conservation¹ Complex² lies between two big rivers in South America—the Amazon River and the Río Negro (Black River). It covers over 60,000 square kilometers (6 million hectares) of the Amazon rain forest. People cannot cut down trees or kill animals in the complex, so the plants and the animals that live there are safe.



<sup>&</sup>lt;sup>2</sup> complex: a place with many different parts



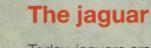


Beautiful flowers and plants like these orchids add bright colors to the rainforest. There are thousands of different orchid species in the Amazon.



#### The giant otter

The giant otter lives in the forests near the Amazon River. Adult giant otters can grow up to 1.8 meters (6 feet) long. They swim very well, and catch all the fish they eat from the river. Giant otters live in big families with their parents, brothers, and sisters. Some people kill these otters for their fur. Also, a lot of the forest they live in is gone. So there are only a few thousand giant otters left in the Amazon.



Today, jaguars are only found in the rain forests of Central and South America. An adult jaguar can weigh more than 140 kilograms (300 pounds) and grow to more than two meters (eight feet) long from nose to tail. In most countries in the Amazon, the law says you cannot hunt jaguars. But some people still do, so the jaguars are still in trouble.

#### The poison dart frog

The poison dart frog is one of the most interesting, and most dangerous, species in the Amazon. The frog's skin has a dangerous poison that can hurt other animals when they try to eat it. While many other frog species use their brown or green skin to hide in the forest, the poison dart frog uses its bright colors to tell animals: "I'm dangerous! Don't eat me!" The poison dart frog is an animal in trouble because people are cutting down the trees it lives in.

Central Amazon



## THE CURUPIRA

For many centuries, the people of the Amazon Basin¹ have told stories about the curupira. Some say the curupira is a boy. Others say it is a girl. However, everyone agrees that it is small, and it has wild red hair, and big pointed ears. A curupira has very special feet; its feet point backwards! Many people in Brazil believe the curupira looks after all the plants and animals in the forest. Any hunter can kill enough to feed his family, but no more. That is the curupira's rule.

Once upon a time, there lived a hunter called Carlos. Carlos wanted to catch animals for his family to eat, but he was unlucky. He could not catch any animals. Finally, he decided to ask the curupira for help. Everyone knows the curupira likes gifts. Carlos left honey under a tree for the curupira. Suddenly, Carlos was very lucky. That day, he killed two birds. Carlos's family had lots to eat.

One day, a man said to Carlos, "How many animals can you kill for me? I will pay you lots of money." Carlos thought this was a good idea. He went into the forest, and hunted for several days. He killed many animals: birds, and pigs, and deer.

Suddenly, a chicken without feathers walked out of the forest.

"What are you doing?" it asked. Carlos heard a voice from the forest say: "Estefan! Are my animals there?" It was the curupira! "Yes, Curupira, they are all here!" the chicken replied.

"Then bring them here!" Curupira said. The chicken touched each dead animal and said, "Wake up! Curupira wants you!" The animals all got up and walked away, into the forest. Carlos was very scared. He wanted to hide. The curupira said to the chicken, "Let him escape." Carlos ran from the forest, and never made the curupira angry again.

<sup>1</sup> The Amazon Basin is the part of South America around the Amazon River.

Circle the correct answer.

Detail

- 1. The curupira has \_\_\_\_\_ hair and \_\_\_\_\_ feet.
  - a. black, small
  - b. red, special
  - c. brown, big

Vocabulary 2. The curupira has pointed ears. What shape is pointed?







- 3. What does the curupira look after?
  - a. hunters and their families
  - b. plants and animals of the forest
  - c. honey and chickens without feathers

- Purpose 4. Why did Carlos kill many animals and birds?
  - a. to get money
  - b. to feed his family
  - c. to give gifts to the curupira

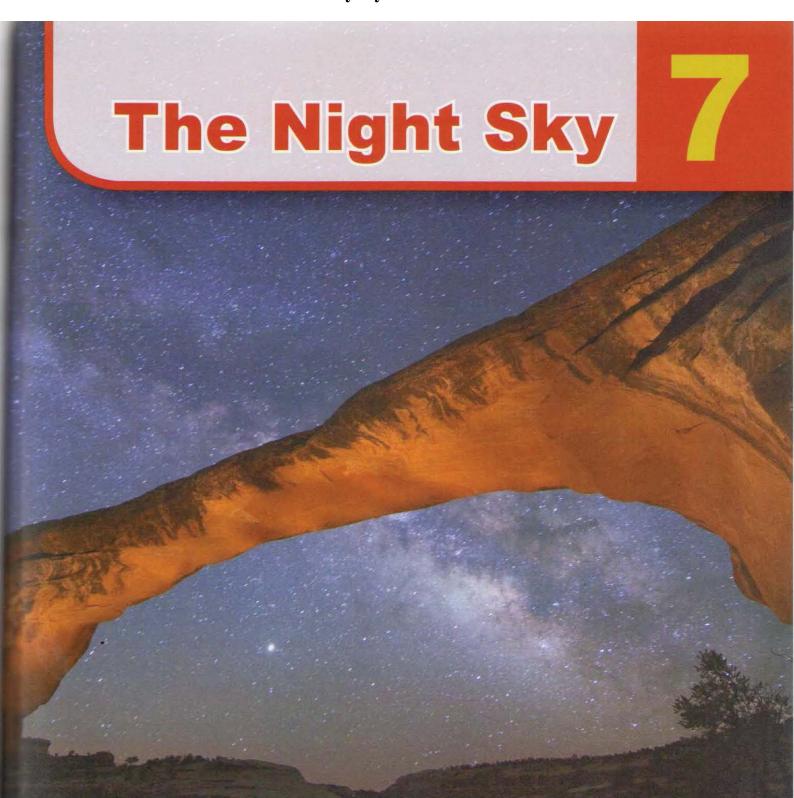
Sequence

- 5. In the story, which of the following happens first?
  - a. The chicken talks to the animals.
  - **b.** Curupira talks to the chicken.
  - c. The chicken talks to Curupira.

#### **Vocabulary Extension**

Vocabulary: Prepositions. Circle the best preposition to complete each sentence

- 1. The people ( for / of / on ) the Amazon Basin have told stories about the curupira for many years.
- 2. Carlos left gifts for the curupira ( near / on / under ) a tree.
- 3. The man wanted to pay Carlos money ( for / to / with ) the animals he killed.
- 4. A chicken without feathers came ( inside / into / out of ) the forest.
- 5. Carlos was scared. He ran away ( from / of / with ) the curupira.

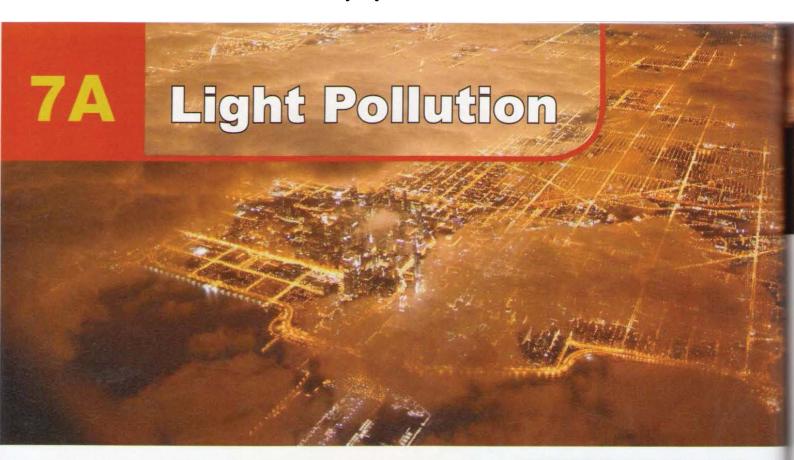


A starry sky over A
Owachomo Bridge,
Natural Bridges National
Monument, Utah, U.S.A.
This area is the United
States' first Dark Sky Park.

#### Warm Up

#### Talk with a partner.

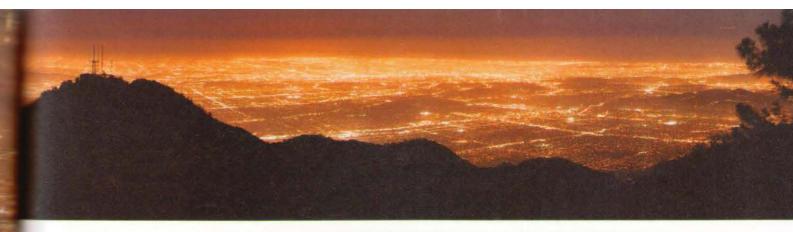
- 1. Where is a good place to see stars?
- 2. Which stars or planets can you name?



#### **Before You Read**

▲ Light pollution from Chicago lights clouds in the night sky.

- A **Discussion.** In cities, there are many electric lights. At night, the light doesn't only shine down. The light often escapes into the night sky. This is called light pollution. Try to answer these questions with a partner.
  - 1. Why do you think light pollution is a problem?
  - 2. What can people do about light pollution?
- B Definitions. Match the words with their meanings.
  - 1. health 2. effect (n.) 3. affect (v.) **4.** ground (*n*.) 5. save 6. positive 7. fill (v.) 8. focus (v.) a. to make something change e. how well your body or mind is b. the part of the Earth under f. something that changes your feet because of something else c. keep g. to turn something so it clearly goes in one direction, e.g. light d. to put as much as you can into a camera into a container h. good; +



▲ Electric lights fill the night sky of Los Angeles, U.S.A., with light.

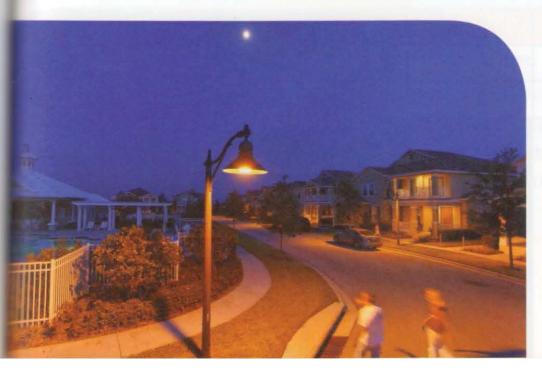
#### Reading

Strategy: Scanning. When did light pollution become a problem?

## The End of Night

- Look up at the sky at night. What can you see? Before electric lights, people could often see about 2,500 different stars. Now, light **fills** the skies over our cities. **This** is called light pollution. Because of it, people in cities can often only see about ten stars!
- Most of the time, light helps us. We can see because of it. It gives plants energy. But light isn't always good. We need times of dark to rest. One hundred years ago, we had those times of dark. Now the night is like day. Some scientists are worried about how this light affects our health. These scientists are studying the effects of light pollution.

Other scientists are finding ways to stop light pollution and make our lives better. For example, many streetlights now have covers. The covers **focus** the light toward the **ground**. They stop the light from going up into the sky. They also **save** energy. The covers are a small change, but they can still have a **positive** effect.



 Covered streetlights save the night sky in Florida, U.S.A.

Circle the correct answer.

- **Detail** 1. Which of these effects of light pollution is NOT talked about in the passage?
  - a. It can be bad for people's health.
  - b. It stops people from seeing the night sky.
  - c. It hurts birds and other animals.

Reference 2. In line 2, the word this refers to \_

- a. light from stars
- b. electric light
- c. daylight

Detail 3. How many good effects from street light covers does the passage talk about?

a. one

b. two

c. three

- **Inference** 4. Which statement does the author probably agree with?
  - a. People should use fewer lights.
  - b. Only big changes are important.
  - c. Scientists worry too much about this problem.
  - B Strategy: Identifying main and supporting ideas. Match the ideas below to the correct paragraph. Is each idea a main idea or a supporting idea? Write a to f in the table.
    - a. Electric lights cause light pollution.
    - b. Light gives plants energy.
    - c. Scientists are finding ways to stop light pollution.
- d. People in cities can only see about ten stars.
- e. Light has good and bad effects.
- f. Streetlight covers focus light toward the ground.

Paragraph	1	2	
Main Idea			
Supporting Idea			
In some places, like here in Burkina Faso, people can still see about 2,500 stars.			
Unit 7 The Night Sky			The state of the s

#### **Language Practice**

#### A Vocabulary: Words in context. Answer the questions below.

- 1. What is one effect of going to bed late every night?
- 2. What is one positive effect of studying English?
- **3.** Light pollution is a problem for people in cities. What other kinds of pollution can **affect** people?
- 4. How often do you worry about your health?
- 5. Which do you like better, night or day? Why?
- 6. What are three things you can fill?
- 7. The passage talks about saving energy. What other things can you save?
- 8. You can focus light, and you can focus a camera. What else can you focus?

#### B Grammar: Using affect and effect. Read these sentences from the passage.

- a. Some scientists are worried about how this light affects our health.
- b. These scientists are studying the effects of light pollution.

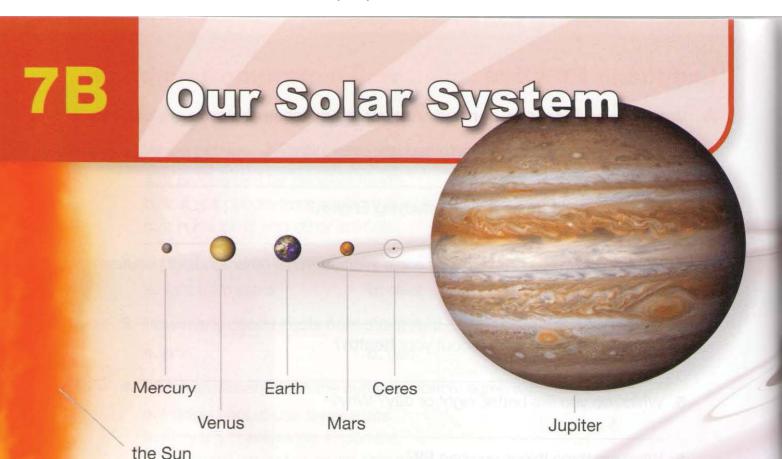
Choose affect or effect to complete these sentences.

- 1. Light pollution has a big (affect / effect ) on night-flying birds.
- 2. A volcanic eruption near a city will ( affect / effect ) people in that city.
- 3. Many people only worry about what (affects / effects) them.
- 4. Scientists don't yet know all the (affects / effects) of light pollution.

#### **Word Partners**

Use save with:

save money, save someone's life, save lives, save time, save the world, save energy



#### **Before You Read**

- Discussion. How many of the planets above do you know? Talk about what you know with your partner.
- B Definitions. Match the words with their meanings.
  - 1. hit (v.)
- 2. area
- 3. create
- 4. steep

- 5. flat
- 6. similar
- 7. wide
- 8. throw



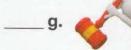
▲ 1 an asteroid





- e. make
- b. almost the same
- f. far from one side to the other

c. a place

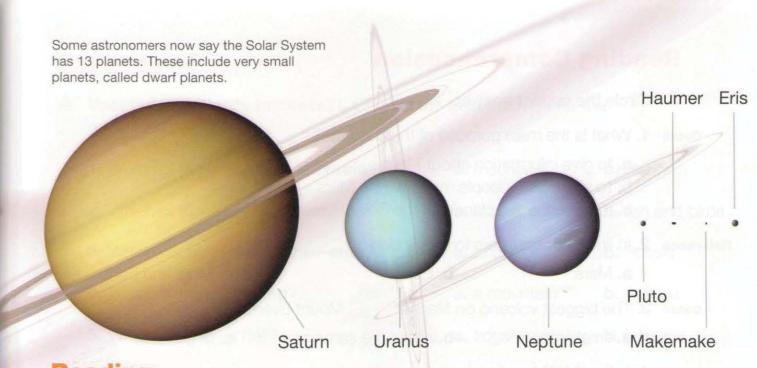












#### Reading

**Strategy: Identifying the topic.** Quickly read the passage. Write each heading in the best place below.

Craters

Canyons

Volcanoes

## Earth's Neighbor

Mars is about half the size of Earth. In some ways, Mars is **similar** to our planet. However, there are also many differences.



the planet Mars

As on Earth, there are mountains on Mars. However, they are much larger than Earth's mountains. One of **them** is the largest volcano in the Solar System. It is three times as high as Mount Everest. Unlike Mount Everest, its sides aren't **steep**. It's also **flat** on the top.

Mars also has rocky canyons, just like Earth. They are much larger than Earth's. One of the canyons is 4,000 km long and 200 km wide. It is amazing to see!

Sometimes asteroids¹ hit planets. When this happens, they **create** craters. This happens to Earth, too. But asteroids hit Mars much more often than they hit Earth. Scientists think that an asteroid larger than Pluto **hit** Mars. When **this** happened, it **threw** dirt into the air.

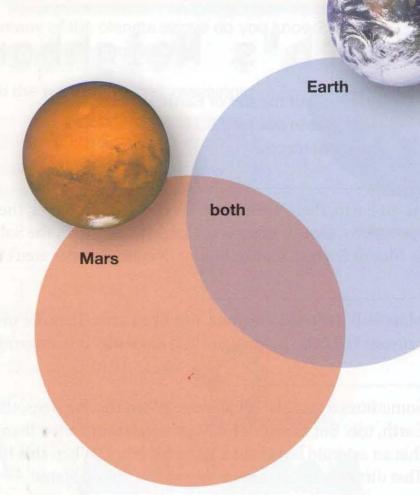
15 That dirt covered an **area** as big as the United States!

- A Circle the correct answer.
- Detail 1. What is the main purpose of the passage?
  - a. to give information about Mars
  - b. to show how people might live on Mars
  - c. to describe the planets of the Solar System
- Reference 2. In line 6, them refers to mountains on \_\_\_\_\_.
  - a. Mars

b. Earth

- c. Mars and Earth
- Detail 3. The biggest volcano on Mars is \_\_\_\_\_ Mount Everest.
  - a. smaller than
- **b.** about the same as
- c. larger than

- Reference 4. In line 14, this refers to \_\_\_\_\_.
  - a. Pluto hitting Mars
    - b. an asteroid hitting Mars
- c. an asteroid hitting Pluto
- **B** Strategy: Classification. Which planet(s) do these sentences describe? Write a to f in the correct place.
  - a. It has mountains.
  - **b.** It has the largest volcano in the Solar System.
  - **c.** Its largest mountain is Mount Everest.
  - **d.** It has a canyon 4,000 km long.
  - **e.** Asteroids sometimes hit it.
  - f. An asteroid larger than Pluto once hit it.



#### **Language Practice**

A Vocabulary: Words in context. Choose the best answers for the questions below.

- 1. Which of these do humans create?
- a. machines
- b. plants

- 2. Which of these are more similar?
- a. lions and tigers
- b. fish and birds

- 3. Which country has the larger area?
- a. England
- b. Russia

- 4. Which of these is steep?
- a. a mountain b. the sea

- 5. Which of these is flat?
- a. frogs<sup>1</sup> a frog
- b. tables

- 6. Which of these can you throw?
- a. cars
- b. rocks

- 7. Which of these do people usually hit?
- a. balls
- b. televisions
- 8. The Amazon River is up to \_\_\_\_\_ km wide. a. 80

**b.** 6,800

**B** Grammar: Comparing things. Read these sentences; **b** is from the passage.

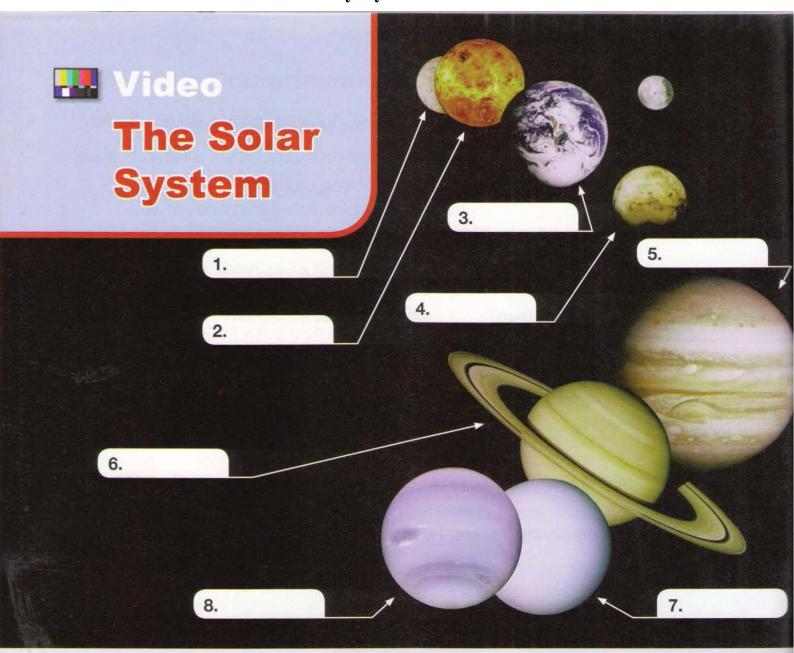
- a. They are much larger than Earth's mountains.
- **b.** One of them is the **largest** volcano in the Solar System.

Complete the sentences with information about your city, area, or country.

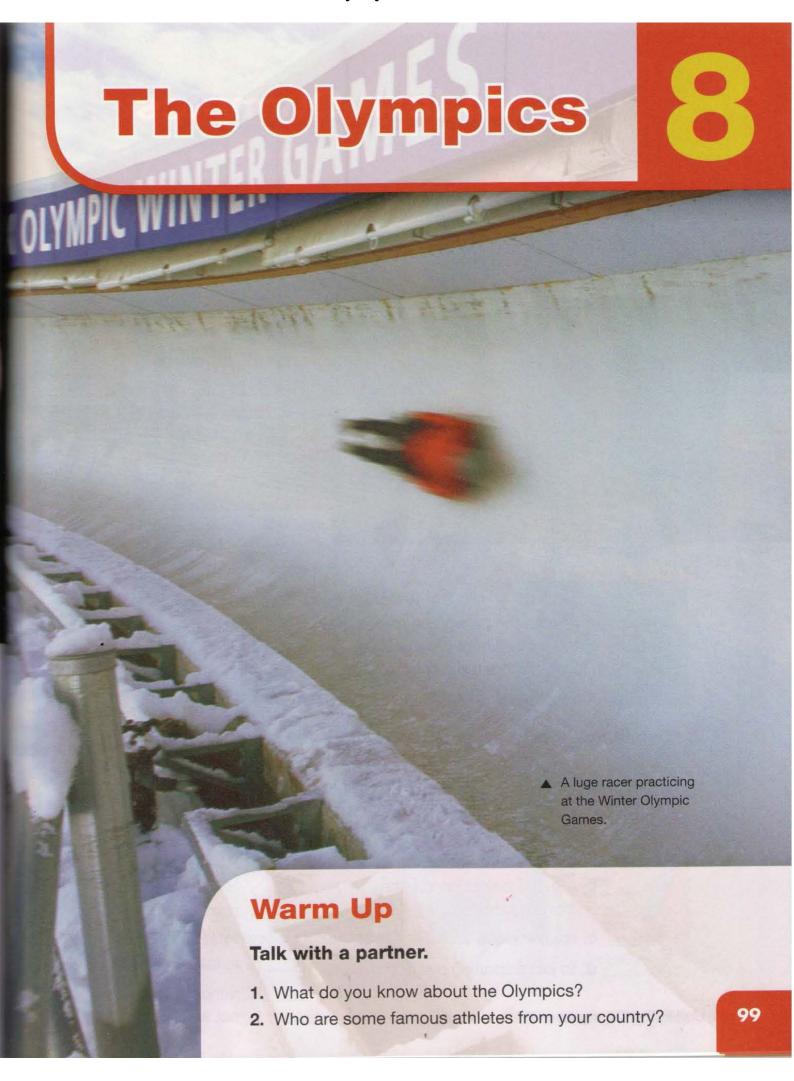
- 1. The largest \_\_\_\_ is
- 2. The widest \_\_\_\_\_ is \_\_\_\_
- 3. The longest \_\_\_\_\_ is \_\_\_\_
- 4. \_\_\_\_\_ is bigger than \_\_\_\_\_
- 5. \_\_\_\_\_ is steeper than \_\_\_\_\_
- 6. \_\_\_\_\_ is taller than \_\_\_\_

Use steep with:

steep hill, steep slope, steep prices, steep increase



- A Preview. Look at the illustration of the Solar System above and look at the illustration on pages 94 and 95. Write the name of each planet. Then watch the video and check your answers.
- B After you watch. Match the sentences to the correct planet.
  - 1. \_\_\_\_\_ It's the same size as Earth.
  - 2. More than 70% of it is water.
  - 3. \_\_\_\_\_ Its red spot is twice as wide as Earth.
  - 4. It has at least 27 moons.
  - 5. \_\_\_\_\_ It is the windiest place in the Solar System. e. Earth
- a. Jupiter
- b. Neptune
  - c. Venus
  - d. Uranus
- C Think about it. Which planet is the most interesting? Why do you think that?



#### The Modern Olympics Before each Olympic Games, there is a torch relay, a long run with many runners. Each runner carries a torch. The last runner in the relay uses the torch to light the Olympic flame in the stadium. The 2008 Beijing Olympics torch relay had more than 22,000 runners, and went through 21 countries in 138 days. Olympic flame stadium torch **Before You Read** A Discussion. Read the paragraph above, and look at the map. Where did the 2008 torch relay start? Where did it finish? Did it go near your country? ▲ The Beijing Olympics Torch Relay. After leaving Ho Chi Minh City, the torch **Definitions.** Match the words with their meanings. visited more than 100 cities in China. 4. athlete 3. remove 2. record (n.) 1. official (n.) 8. return 6. contain 7. compete 5. instead of e. a person helping at the a. someone very good at sports Olympics, or other events b. e.g. the fastest speed, the highest jump, etc. f. come back; take something back c. have; include g. to take away; to take out d. to join a sporting event h. rather than; one thing and

not another

#### Reading

**Strategy: Scanning.** Quickly read the blog below. Which Olympic sport does the writer talk about?



#### **An Olympic Blog**



#### The Olympic Torch

Every Olympics has a torch relay. The Beijing relay set a new **record**. It was the longest ever. One of my dad's friends ran in the relay. He told me **something** I didn't know. After each runner finishes, Olympic **officials** take the torch and **remove** the gas container. Then they **return** the torch to the runner. This way, the runners can keep their torches. But they can't relight them.



David, the writer of this blog, holds an Olympic torch.

#### 10 What You See and What I Saw

 When you watch the Olympics on TV, you can see cameras. However, you can't see all of them. Look at the camera in this photo. It moves along a rail. It's used to film athletes running around the track.



#### **15 Athlete Badges**

instead of him!

My mom took me to a party. At the party, I met Gabe Gardner. He's on the men's volleyball team. He told me that all the athletes have badges. These badges¹ contain computer chips.

When officials put Gabe's badge in a computer, it shows his picture. That way, no one can compete in the eyent





1 a badge

A Circle the correct answer.

Detail 1. Who ran in the Beijing torch relay?

a. David

b. David's dad

c. a family friend

- Inference 2. In the first paragraph, which of these facts surprised David?
  - a. The Beijing torch relay was the longest torch relay ever.
  - **b.** The torches contain gas containers.
  - c. Runners can keep their torches.

102

- Vocabulary 3. Which of these also uses a rail (line 13)?
  - a. a ship

b. a train

c. a plane

- Detail 4. Which of these statements about Gabe Gardner is NOT true?
  - a. He is an Olympic athlete.
  - **b.** He had a badge with a computer chip.
  - c. David asked him to come to a party.
  - **Strategy: Identifying fact and opinion.** Which of these statements about the Olympics are facts (F) and which are opinions (O)?
    - a. \_\_\_\_\_ David was very lucky.
    - **b.** \_\_\_\_\_ The athletes have badges so only they can compete.
    - c. \_\_\_\_ The Beijing Olympic torch is beautiful.
    - d. \_\_\_\_ On TV, you can't see all the cameras at the Olympics.
    - e. \_\_\_\_\_ David met Gabe Gardner in Beijing.



#### **Language Practice**

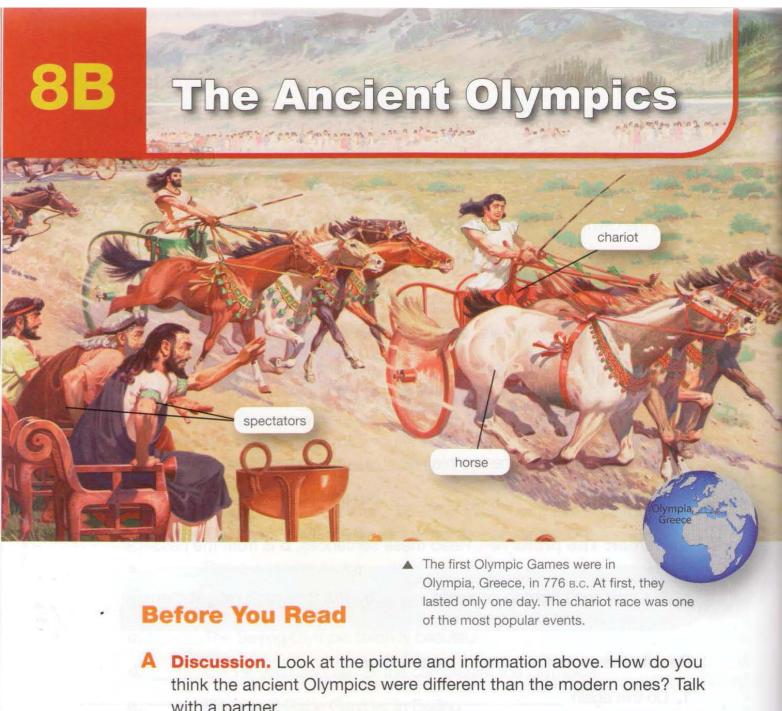
A Vocabulary: Completion. Complete the sentences using a word from the box.

contains record compete athletes	return remove inste	ad of official
1. At the Olympics, when you have a pro	blem, you should ask a(n)	
2. The for the 100m men's re	unning race is less than 10 se	econds.
3. Soccer players have to th	eir watches¹ before a game.	-
4. Tennis players, swimmers, and runner	s are all	
5. Many people watch sports	_ competing themselves.	The state of the s
6. An Olympic swimming pool <sup>2</sup>	about 2.5 million liters	¹ a watch
of water.		
7. In a volleyball game, the two teams	to get 25 points.	
8. After the Olympics, athletes	_ to their home countries.	<sup>2</sup> a swimming poo
Grammar: The prefix re Read these	e sentences; <b>b</b> is from the p	assage.
a. But they can't light them again.	b. But they can't relight to	hem.
Rewrite the sentences using a word wit	h <i>re-</i> .	
1. Do this again.	next the england Diserpice.	
2. Write this again.		
3. Read the passage again	new(s)(0.1)(3)(s)(7)(s)(s)(s)(s)(s)(s)(s)(s)(s)(s)(s)(s)(s)	
4. Tell the story again.		
5. Start the computer again.		

#### Usage

Record can have two meanings:

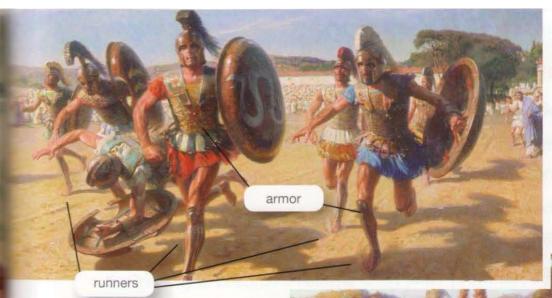
- 1. (n.) /'reko:d/ e.g. a world record, a record player
- 2. (v.) /rr'kɔ:d/ e.g. record a song, record some information



- with a partner.
- **Definitions.** Match the words with their meanings.

					113.60		in the second	
1. cheat	2. crowd	3. honest	4. join	<b>5.</b> pr	omise	6. quiet	7. share	8. voic
	e.g. to look answers du	at another at ring a test	student's	3	6	not nois	y or put tog	gether
b. saying and doing only true thingsc. to say you will do something				js _	g.	to give part of something to someone		
d. a	a big group	of people			h.	the sour	nd we hear e talks	when

#### www.yahyasoliman.com



- Athletes running at the ancient Olympics. In this event, they wore heavy armor.
- Spectators watching wrestlers in the ancient Olympics.
   In most events, athletes competed without clothes.

#### Reading

#### Strategy: Skimming.

This passage is a story about the ancient Olympics. Who is the writer of the passage?

- a. a spectator
- b. an athlete
- c. an official

Read the passage and check your answer.

# wrestlers spectators

## LET THE GAMES BEGIN!

- It was the first morning of the Olympic Games. We went to the stadium for the running races. Even though it was very early, it was already full of athletes. Some exercised, and some **stretched**. All of the athletes wanted to be ready for their games.
- Other athletes were on the field. There were spectators all around them. As we **joined** the **crowd**, we heard trumpets<sup>1</sup> and the sounds of horses. The **voices** of the great crowds joined these sounds. I **shared** the excitement everyone felt.

As we watched, the athletes walked to the center of the field. The king wanted to know the athletes were good and **honest**. They **promised** not

to **cheat**. Then, one of the king's officials stood up. He asked the spectators, "Can anyone say anything bad about any of these athletes?"

It was very **quiet**. No one answered. After a minute, we heard, "Then let the games begin!"



1 a trumpet

Circle the correct answer.

- Inference 1. In line 2, what does it refer to?
  - a. the morning
- b. the stadium
- c. the race

Vocabulary 2. What were the athletes stretching (line 3)?

- a. their horses
- b. other athletes
- c. their arms and legs

Inference 3. Why did the official ask the spectators a question?

- a. The king didn't want athletes to cheat.
- b. He wanted spectators to enjoy themselves.
- c. He wanted to make the games more exciting.

- Detail 4. Which of these does the passage NOT talk about?
  - a. what the athletes did before the games started
  - b. who won the first race
  - c. what the spectators saw and heard

B Strategy: Sequencing. Number the events in order from 1 to 6.

- The official asked the spectators a question.
- b. \_\_\_\_ The Olympic Games started.
- **c.** The athletes promised to be honest.
- d. \_\_\_\_ Athletes competed in the running races.
- e. \_\_\_\_ The writer went to the stadium.
- f. \_\_\_\_ There was a noise of trumpets.



ancient Olympia

#### **Language Practice**

#### A Vocabulary: Words in context. In each sentence, circle the best answer.

- 1. When you are (honest / quiet), you don't say untrue things.
- 2. It is hard not to touch people in a ( crowd / voice ).
- 3. During tests classrooms are usually (honest / quiet).
- 4. When you ( share / promise ) something, you say you will do it.
- 5. One way to become an athlete is to (join / promise) a soccer team.
- 6. Most lottery winners ( share / join ) the money they win with their family.
- 7. When one team in a game (cheats / voices), the other team isn't happy.
- 8. In a stadium full of spectators, you have to speak with a loud (promise / voice).

#### B Grammar: some, any, every, no. Read these sentences from the passage.

- a. He asked the spectators, "Can anyone say anything bad about any of these athletes?"
- b. No one answered.

Choose the best word to complete each question. Then ask and answer the questions with a partner.

- 1. Do you know (everyone / anyone) famous?
- 2. Do you think ( someone / everyone ) at the Olympics likes sports?
- 3. Are there any sports that (everyone / everywhere) in your family likes?
- 4. Did you ever put your keys1 (nowhere / somewhere) and then forget where?

#### **Word Partners**

Use promise with:

(n.) break a promise, make a promise, keep a promise (adj.) a broken promise, an empty promise, a false promise





## **The Olympics**

A Preview. You will hear these words and phrases in the video. Write the correct word below each picture.

boxing wrestling weight chariot









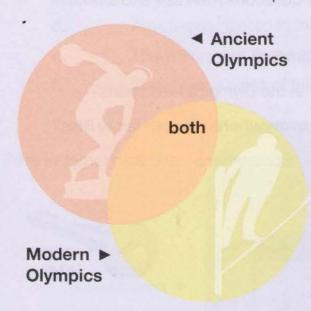
1.

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**B** After you watch. Which Olympics, ancient or modern, do these things match? Write a to h in the correct place.



- **a.** Athletes from all over the world come to compete.
- b. The games are held every four years.
- **c.** Men and women can compete in the games.
- **d.** The winner gets an olive wreath.
- e. Wrestling is an Olympic sport.
- **f.** Boxers and wrestlers are divided into groups by weight.
- **g.** Long jumpers hold weights in their hands to help them jump further.
- h. The games are all held at Olympia.

C Think about it. How are the Olympics and the soccer World Cup similar and different?

#### **Vocabulary Review**

**Crossword.** Complete the crossword puzzle with words from Units 7 and 8.

#### Across

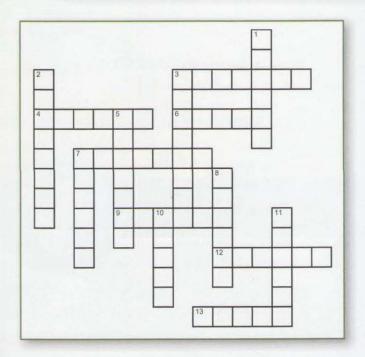
- 3. say you will do something
- 4. saying and doing only true things
- 6. give part of something to someone
- 7. to go in a sporting event
- 9. make something change
- 12. to take away, to take out
- 13. a big group of people or things

#### Down

- 1. came or was put together
- 2. people doing sports
- 3. good, +
- 5. almost the same
- 7. to make
- 8. to come back, take something back
- 10. to make something go in one way
- 11. the floor of a room, or the earth outside

## Review





#### **World Heritage Notes**

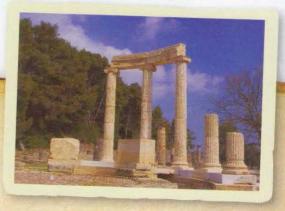
**Notes Completion.** Scan the information on pages 110 and 111 to complete the notes.

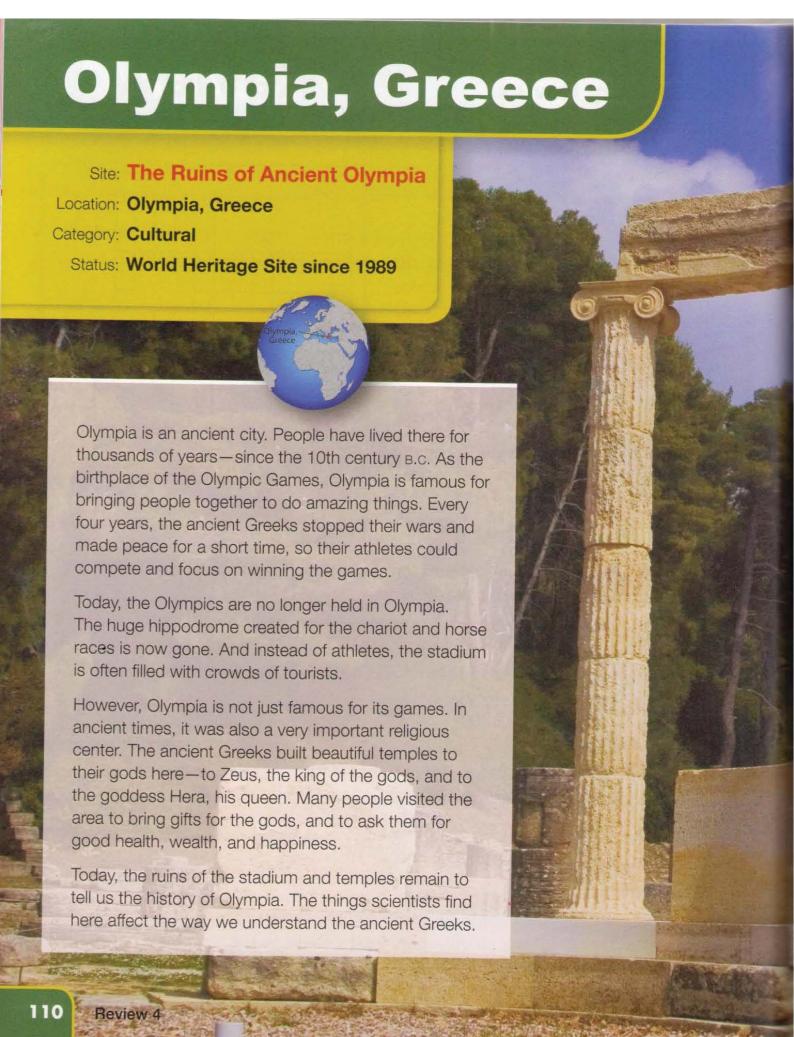
What: The Ruins of Ancient Olympia

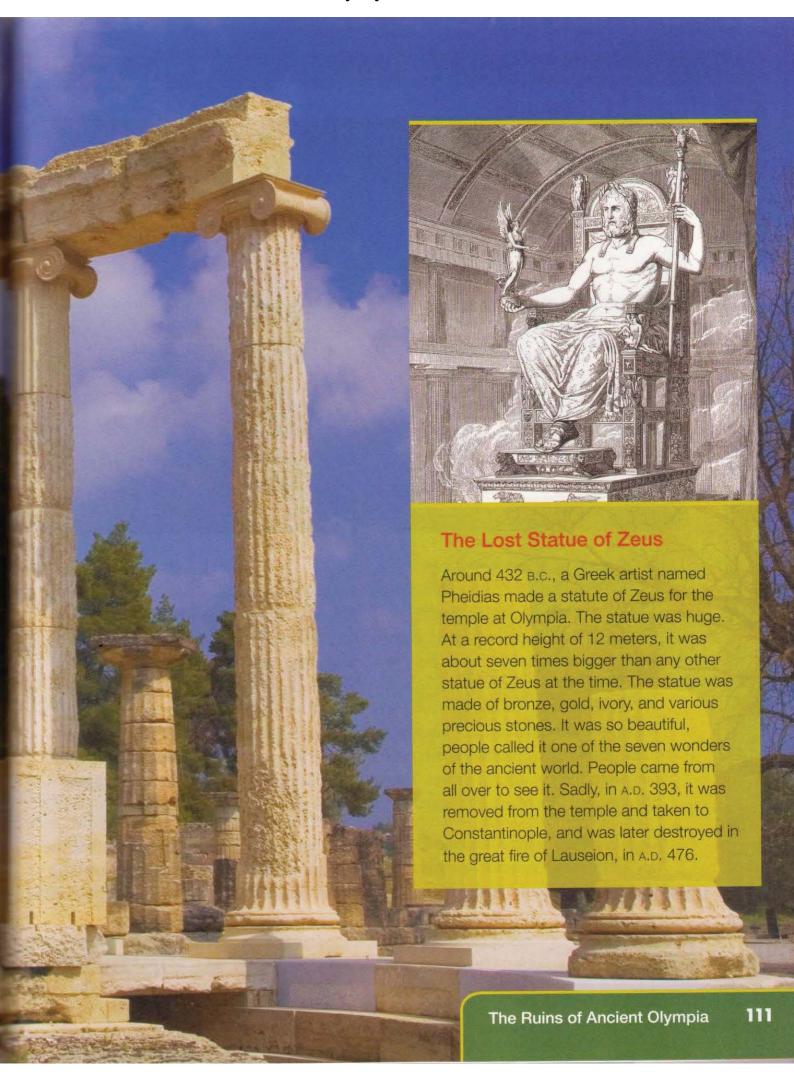
Where: Olympia,

#### Data:

- · Ancient Olympia has been a world heritage site since
- · People first lived in Olympia in the \_\_\_\_\_ century B.C.
- The city is famous for being the \_\_\_\_\_ of the Olympic Games.
- During the games, the Greek cities all stopped their \_\_\_\_\_\_
  - · Olympia is also famous as an important religious center.
  - The ancient people built temples to the Greek god \_\_\_\_\_,
    and the goddess \_\_\_\_\_\_.
  - The statue of Zeus was one of the seven \_\_\_\_\_\_\_
    of the ancient world.





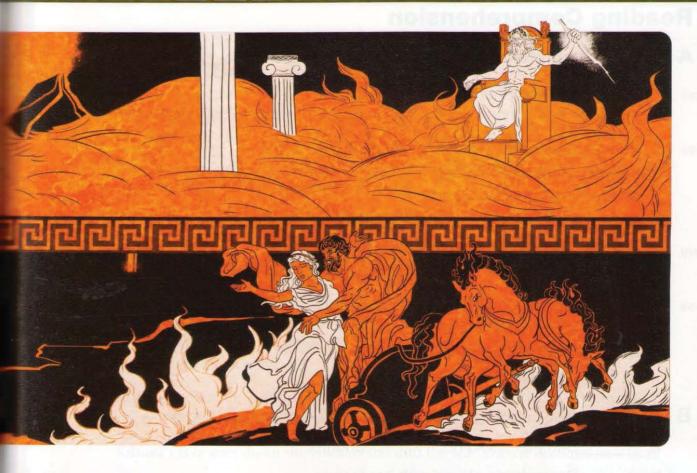


리<u>리</u>리리리리리리리리리리리리리리리리리리리리 A GREEK FOLKTALE RETURN OF SPRING

PERSEPHONE AND THE

Among the gods of ancient Greece, there was a beautiful goddess named Persephone. Persephone's father was Zeus, the king of the gods. Her mother was Demeter, the goddess of farms. The young goddess was lovely, like her mother. She smelled like roses. She loved to laugh and play.

One day, Persephone was playing with her friends in a field of flowers. Hades, the god of the Underworld, saw her and fell in love with her. He drove his chariot up through the ground and grabbed her. He took her to his kingdom below the Earth.



Demeter looked everywhere for her daughter, but could not find her. As she cried, plants and trees around the world died. There was no food, and the people became hungry. They cried to the gods, but no one could help. As long as Demeter was sad, nothing would grow. Persephone was sad, too. The Underworld was dark and cold, and she missed her mother. Finally, Zeus made Hades let Persephone return to Earth. But first, Hades gave her four pomegranate seeds to eat. Anyone who eats or drinks something from the Underworld must live there forever. However, Persephone did not know the law, and she ate the seeds.

So, for four months every year, Persephone returns to the Underworld. During that time, Demeter is sad, so the ground is brown and nothing grows. Then, for the next eight months, she lives on Earth. Then, everything grows again; the fields are green and there's fruit in the trees.

### **Reading Comprehension**

Α	Reading Comprehension. Circle the correct answer.				
Detail	1. Demeter is Persephone's				
	a. sister	<b>b.</b> mother	c. friend		
Purpose	<ul><li>2. Hades probably fell in</li><li>a. she was playing in</li><li>b. she liked the Under</li><li>c. she was beautiful</li></ul>		use		
ocabulary	3. In line 7, what does grabbed mean?				
	a. touched	<b>b.</b> caught	c. lifted		
Purpose	<ul><li>a. She wants to visit I</li><li>b. The ground on Earl</li><li>c. She ate seeds in the</li></ul>	th is brown.			
	a Demeter could		or from 1 to 0.		
	b Persephone p				
		eturned to Earth for eight m	onths.		
		ersephone to the Underwor			
•	e Plants around				
V	ocabulary Exten	sion			
Vo	cabulary: Review. Circle	e the best word to comple	te each sentence.		

- 1. (Join / Share) a sports team, practice hard, and one day maybe you can (compete / examine) in the Olympics.
- 2. (Everyone / Anyone ) wants to ( save / contain ) money.
- 3. When you ( make / take ) a promise, you should ( keep / stay ) it.
- 4. It is a good idea to try to learn ( something / someone ) new ( any / every ) day.
- 5. Every day doctors save ( no one's / someone's ) ( life / lives ).



### Volcanoes

**Narrator:** On Earth, there are about 1,500 active volcanoes. This means they still erupt.

About 90 percent of the volcanoes on Earth are near the Ring of Fire, around the Pacific Ocean.

The outside of the Earth is made from big pieces of rock, called plates. The plates move around a lot. When they move, rocks deep inside the Earth get hot. They become magma. When the magma comes out of a volcano, we call it lava.

In some volcanoes, the lava goes slowly down the side of the volcano. These volcanoes are safer to be near, and can be beautiful. Other times, a volcano's lava suddenly comes up from inside the Earth. The volcano erupts and rocks, ash, and lava go high into the air.

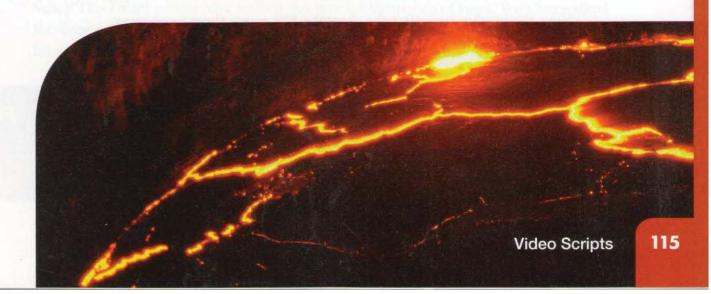
Kilauea, in Hawaii, is one of Earth's most active volcanoes. It has been erupting since 1983. People from all over the world go there to see it.

Kilauea's lava goes down the volcano and into the sea. Then it becomes new land.

But not all volcanoes are safe. In A.D. 79, Mount Vesuvius suddenly erupted near Pompeii in Italy. It was terrible. The ash went everywhere. The eruption of Mount Vesuvius killed 2,000 people.

Many volcanoes are not safe. But they can help us, too. Volcanoes made 80 percent of the land on Earth. They help plants to grow. They made a lot of the air, too.

Volcanoes help us understand the power deep inside the Earth.



## 2

### Cheetah vs. Gemsbok

Narrator: It's morning in the Kalahari Desert, in Africa.

A mother cheetah calls for her children. Where are they?

She can't find her cubs.

The two cheetah cubs are playing. They find a gemsbok in the grass.

It's alone, and hurt, and they are hungry.

The gemsbok is too big for them to kill. Even the mother cheetah cannot kill it.

The mother cheetah calls again, and the young cheetahs leave the gemsbok.

Cheetah mothers look after their cubs until they are more than a year old. Then the cubs will go away, and she will be alone again. When female cheetahs grow up, they usually live alone. But sometimes brothers like these stay together their whole lives.

The brothers run and play together, they also hunt together. Today, the brothers are hunting without their mother.

They find a lot of gemsbok.

The hunt begins.

The cubs catch a young gemsbok.

But the mother gemsbok sees that her child is in trouble.

And she is not happy. She doesn't want the cheetahs to kill her child.

She goes back to her child, and helps it.

The baby gemsbok is OK.

Now, the mother runs after the cheetahs. She wants them to go away.

The mother gemsbok can kill cheetahs, but today, she doesn't hurt them.

For now, the gemsbok can go home to their family, and the cheetah family is safe too.

It's the end of another day for the animals in the Kalahari.

### 3 An Amazing Trip

**Narrator:** Around the world, every child becomes an adult in a different way.

Yoro Sisse is a 16-year-old Fulani boy from Diafarabe, Mali. Every year, teams of young Fulani boys, like Yoro, make a long trip. They do this to find food for their cows.

During the dry season, the cows can stay near the Fulani's home. But in the wet season, there is too much rain for the cows to stay there. They take their cows into the Sahel, near the Sahara Desert. In the desert there aren't many trees or plants. It is very dry. The boys travel along the edge of the desert, moving from place to place.

The boys' trip can take almost eight months. There is little food for the boys near the desert. They do not carry a lot of food with them. They usually only drink milk.

**Yoro:** We have to keep moving to find more food for our cows. Our job is to bring back fat cows.

**Narrator:** This is something every Fulani boy has to do. It's a very important job. When Yoro goes home, everyone will look at his cows.

If the cows are all OK, the other Fulani people will know Yoro can take good care of his herd. Then, they will say he is not a boy, but a man.

This is Yoro's girlfriend, Aissa. She wants him to come back with good cows because she wants to marry him. In the Fulani tribe, mothers and fathers choose the person their children can marry. If Yoro doesn't come back with good cows, Aissa's parents won't let her marry him.

During the trip, Yoro thinks about many things. He worries about finding food for his cows. He also worries about other people who want to take the cows.

Yoro starts his journey in Diafarabe, Mali. He takes his cows through Mauritania, to the Sahel. The Fulani people have walked this way for thousands of years. Yoro has walked for three months. Now he is going back to his home—and his family, and his girlfriend.









**Yoro:** We walk all day without stopping. Sometimes we get very thirsty, and the cows get tired. Often, we don't sleep at night.

**Narrator:** The young cows in Yoro's herd look good. Everyone can see Yoro's hard work. He marks them so everyone knows they are his.

The trip is almost over, and Yoro is excited to see his girlfriend.

But, now they still have to cross the river. Yoro swims with his cows. He wants to make sure they are OK.

Across the river, his family and friends wait for the boys. After a long and difficult trip, Yoro's cows are all OK. It's time to celebrate and have fun.

## 4 Solar Cooking

**Narrator:** It's a cool day in Borrego Springs, California, but Eleanor Shimeall is cooking outside. She doesn't need electricity, wood, or gas. She's cooking with the energy of the sun.

**Eleanor:** I'm gonna check on this chicken and rice and see how it's . . . whether it's cooking. Ah, it's doing a good job.

**Narrator:** Eleanor started cooking with the sun almost 30 years ago. Using a machine called a solar cooker, she can cook meat, fish, and bread.

It is a slow way of cooking, but is both cheap and healthy. It's also good for the Earth.

In places where cooking with electricity is impossible, solar cookers can save lives. Eleanor is part of Solar Cookers International (SCI), a group showing people how to use the sun's energy in their daily lives.

In some places, women have to walk up to five kilometers every day to get wood. It's hard work. Then they make a fire. The smoke makes the air dirty. This dirty air is bad for the Earth and for humans.

SCI, and other groups want to help. So, they teach these families to use the sun to cook. Now, more than 30,000 families are cooking with the sun.

**Wendy, Solar Cook:** Oh, this is good. It's very good. The consistency is good, the texture is fine—no problem.

African villager: We're all amazed that a cardboard box can cook.

**Narrator:** SCI's solar cooker is easy to use. And it's very cheap. It's only \$5. And, it lasts for two years. When people use the solar cooker, the dark pot and the plastic bags keep in the sun's energy.

The energy from the sun makes the dark pot hot so it can cook the food. Solar energy can also clean water. Many people don't have safe drinking water. Dirty water can make people sick. Scientists say dirty water kills about 6,000 people every day.

But with solar energy, people don't need big machines to make clean water. They can just use a little solar cooker. This is a WAPI. It shows people when the water is hot enough. That way, the people know the water is clean, and safe to drink.

Solar power is becoming very useful and popular in many places. And SCI is working to get more people all over the world to use this cheap and clean energy.

African villager: OK, solar cooker!



# 5

### **Treasure Under My Home**

**Narrator:** Egypt is famous for its treasures from the past. In Egypt, selling artifacts is illegal, but some people still do it. In some villages in Egypt, people's houses are right on top of tombs. It's easy for these people to find treasure. Dr. Fredrik Hiebert is an expert on Egyptian artifacts.

He says that some sellers of artifacts aren't thinking about what the artifacts can tell us about Egypt's amazing history. Lisa Ling is a famous reporter. Lisa wants to find out about the people selling these artifacts. She found out about a man selling artifacts illegally. She is going to meet this man.

**Lisa:** We're gonna be using this camera, and I don't really know what's going to happen from here on out, so as soon as he calls, we're going to go meet him on the street somewhere.

**Narrator:** Finally, Lisa goes to meet the man. She must meet him secretly, and she cannot show his face.

Lisa: Wow. So is that it? That's the tunnel?

Man: Yes.

**Narrator:** The man shows Lisa an old tunnel. It used to go to a tomb but now the artifacts are all gone.

Lisa: So it's really deep, huh?

Man: Yeah, it's too deep.

Lisa: Have you ever gone down there?

Man: Yeah, I've gone before.

**Lisa:** What this man is saying is that the poor people who live up here in upper Egypt, they really don't know so much about history and when they find something they see they can make money off it, so they sell it for food, is that right?

Man: Yeah.

**Narrator:** The man usually hides these items, but today, he shows them to Lisa. He says they are real artifacts. They are very old and very special. He says these were found under somebody's house.

Lisa: So do you sell these things?

Man: Yeah.

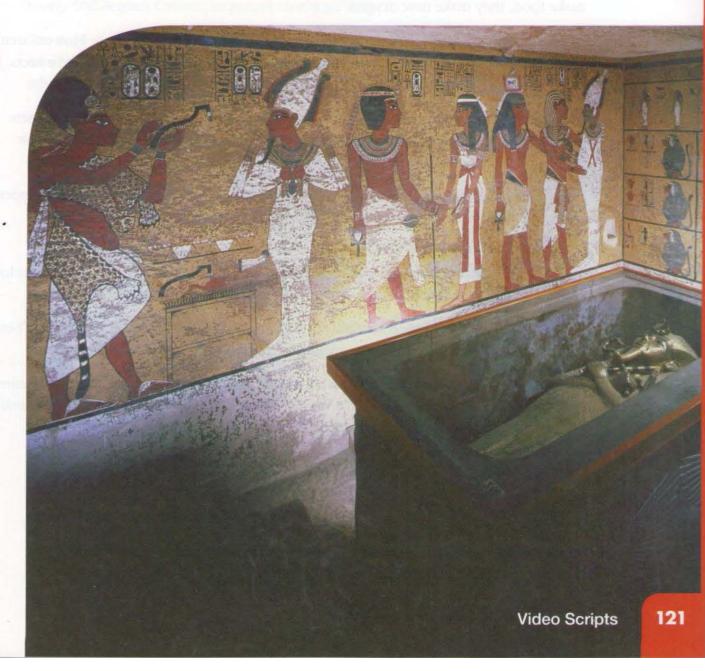
Lisa: How much do you think you could sell this for?

Man: Ten thousand dollars.

**Lisa:** So we're being told that all this stuff together is worth about 30 thousand U.S. dollars. It's incredible that this has survived thousands of years if this is in fact real. This is amazing. I've really never seen anything like these before.

**Narrator:** Egyptian smugglers can sell these items because people around the world want them. After they leave the country, it is very hard to get them back. But the police are trying to stop them. They are also trying to teach people not to sell their country's artifacts.

Dr. Hiebert says things are getting better. More people in Egypt are learning about their history. When these people find out more about their history, they want to keep these items safe, not sell them to smugglers. The smugglers are hard to catch, but the police and experts want to stop them and protect Egypt's wonderful artifacts, and its rich history.



# 6

### **Plants**

**Narrator:** Across the world, plants and animals need each other to live. Plants grow almost everywhere on the planet. In the center of the desert, in the Arctic. And even in the ocean. Scientists today know over 250,000 kinds of plants, and they think there are many more plants that we don't know anything about.

Green plants are important for all living things because plants make their own food. The food that plants make becomes food for us all. Green plants take carbon dioxide, water, and sunlight, and use these to make food.

Then some animals, like these ants, eat the plants. And then meat-eating animals eat those animals. So, in the end, plants feed everyone. We also need plants because when plants make food, they make new oxygen.

This oxygen helps make the air we breathe. But plants need animals, too. Flowers aren't just beautiful to look at. They have different colors because small animals, like insects, like the colors and sweet smells. They go to the flowers to get food.

That's good for the animals, but it also helps the plants. Plants need birds and insects to help carry their pollen to several other plants. This helps the flowers to make new flowers. Other animals like birds and bats often help the flowers, too.

Sometimes, animals and insects are useful to plants as food. This pitcher plant is slippery inside. Small insects land inside it and cannot get out. Then, they die and the plant eats them.

Another plant that eats insects is the sundew. Insects come to the sundew because it looks nice. When the insect touches the sundew, it sticks to the plant, and can't escape.

Plants use animals to move their seeds too. Animals come to eat the plant's fruit. Then they carry the plant's seeds to other places where the plant can grow.

Sometimes when an animal eats the fruit, the seeds fall on the ground. And small animals pick up the seeds—and cover them with dirt. Some of these seeds then grow into little plants. Later, the baby plant will become a big tree, starting the cycle again.



### 7 The Solar System

**Narrator:** Our Solar System is in the Milky Way Galaxy. Scientists say that it was created four and a half billion years ago. A big cloud of dust and gases slowly flattened and became hot. This finally made a new star, our sun. There are eight main planets going around our sun. These planets and the sun together are called our Solar System. The sun is in the center. It's so big it's 100 times heavier than all the planets together.

The closest planet to the sun is Mercury. In the day, it's very hot—about 400 degrees Celsius. At night, it's very cold—about minus 180 degrees Celsius.

Next is Venus. Venus is about the same size as Earth. But its air is mostly made of carbon dioxide, a gas that keeps heat in. So Venus is always very hot. The temperature on Venus is nearly 500 degrees Celsius, so people cannot go there.

The third planet from the sun is Earth. More than 70% of the Earth is covered with water. A lot of scientists think Earth is the only planet with life on it. Some are still looking for life on other planets.

After Earth, there is Mars. It's called the red planet because the ground is covered with red dirt. Mars has the deepest canyon and the tallest mountain in the whole Solar System.

Then there are a lot of asteroids. Most of them are less than two kilometers wide.

Jupiter is the largest planet in the Solar System, more than 1,300 times bigger than Earth. It has a stormy, red spot. This stormy area is twice as wide as Earth.

Saturn is next. It's the second largest planet. Its famous rings are made of ice. Similar to Jupiter, Saturn is made mostly of gas.

The seventh planet from the sun is Uranus. It has rings, too, and at least 27 moons!

Neptune, the eighth planet, is the windiest place in the Solar System. It's the last planet, but it's not the end of the Solar System.

After Neptune, there's Pluto. Scientists think Pluto is too small to be called a planet. Today, we call Pluto a dwarf planet.

Our Solar System is amazing, but there are many other suns and planets in our galaxy for scientists to focus on and study. And there are billions of galaxies out there!



# 8

### The Olympics

Narrator: Every four years, athletes from all over the world compete in the Olympic games.

The first Olympic games were held more than two thousand seven hundred years ago. Like today, the games then were held every four years. In those days, only men could compete in the games.

They came from all over Greece, to the city of Olympia, to see who was the best.

Instead of having many types of sports, when the games began, there was just one competition—the footrace.

According to legend, the first Olympic champion was a cook named Coreobus. He ran in a 192 meter race, surrounded by huge crowds of people.

During the games, all athletes and officials made a promise to be fair, and honest. If any athlete cheated, he was removed from the competition, and had to pay the officials money.

Soon, there were more events. We can still see some of these sports in the Olympics today.

The discus throw then was similar to today's sport. But the ancient Greeks threw a large flat rock, while today's discuses are usually metal.

Ancient long jumpers held weights in their hands to help them jump further.

The javelin was a long wooden pole thrown across a stadium. These ancient javelins were mostly identical to the ones used today, except for a leather finger hold which helped the ancients throw further.

The ancient Greeks also held horse-riding and chariot-racing competitions. These races were dangerous, but the crowd loved them.

Another sport was wrestling. To win a wrestling match, one athlete had to throw the other down three times.

In boxing, matches then didn't stop until one athlete gave up, or couldn't get up again. Today, boxers and wrestlers are divided into different groups based on weight. But in ancient Greece, amazingly, for boxing and wrestling, there were just two groups. One for men, and the other, for boys.

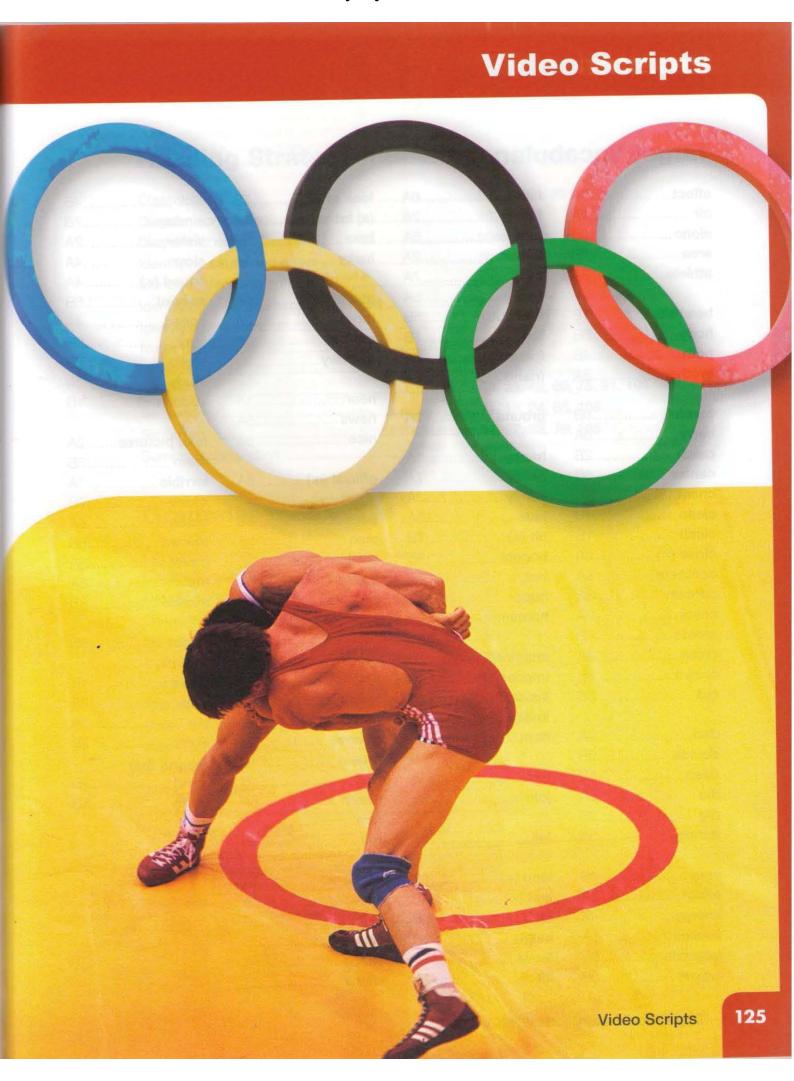
For each sport, there was only one winner.

That person got an olive wreath to show that they won. When they returned home, everyone loved them. They were famous, and shared their fame with their hometowns.

Then, in A.D. 393—after almost twelve centuries—the Roman emperor Theodosius the First put an end to the Olympics.

But, of course, that wasn't really the end. In 1894, officials from 10 different countries met to organize the first modern Olympics. Two years later, in 1896, the Olympics began again.

And since then, the Olympic games have become more popular than ever.



### Indexes

### **Target Vocabulary Index**

affect7A	fall6A	look after2B	sick4B
air1A	family2A	(a) lot of1A	similar7B
alone2B	famous5A	love2B	<b>sister</b> 2A
<b>area</b> 7B	father2A	lucky5A	slow4A
athlete8A	fill7A		sound (v.)4A
	finally5A	machine4A	special5B
beautiful1B	find out5B	mom2A	<b>speed</b> 4A
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brother2A	friend2A		<b>study</b> 2A
		near1A	sudden1B
careful6B	ground7A	news5A	
carry3A		nice6A	take pictures2A
catch2B	happy1A		team3B
center6B	health7A	official (n.)8A	terrible1A
cheat8B	heavy3A		throw7B
clean4B	hide5A	perfect3B	touch6A
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compete8A	hot1A	positive7A	trip3A
contain8A	huge3B	probably4B	trouble2B
cover6A	human4A	promise8B	
create7B	Trainian	promise	voice8B
cross3A	imagine1B	<b>quiet</b> 8B	VOICE
crowd8B		quietoD	whole1B
cut3B	impossible4A inside1B	roadu 6A	wide7B
<b>Cut</b> 3D		ready6A	win5A
dad2A	instead (of)8A	record (n.)8A	
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dig3B		rich5A	
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easy4B	land (v.)6A	safe1A	
<b>effect</b> 7A	last (v.)4B	save7A	
energy4A	later6B	<b>sell</b> 5B	
<b>escape</b> 5A	laugh5B	several6B	
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