**Reading & Vocabulary Development** 

## Concepts Concepts Concepts

THIRD EDITION

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Patricia Ackert | Linda Lee



Reading & Vocabulary Development 4: Concepts & Comments, Third Edition
Patricia Ackert and Linda Lee

Publisher, Adult and Academic ESL:
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Printed in Canada 3 4 5 6 7 8 9 10 09 08 07 06 For more information contact Thomson Heinle, 25 Thomson Place, Boston, Massachusetts 02210 USA, or you can visit our Internet site at elt.thomson.com

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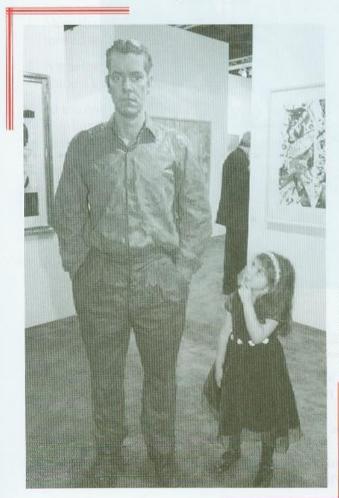
Web www.thomsonrights.com

ISBN 13: 978-1-4130-0417-5 ISBN 10: 1-4130-0417-2 ISE ISBN: 1-4130-0448-2

Library of Congress Control Number: 2005932285

Art

Every child is an artist. The problem is how to remain an artist once [you] grow up. —Pablo Picasso



lesson

### **Navajo Sand Painting**

1



Proposition of a

#### Before You Read

- 1. What three adjectives would you use to describe the sand painting in the photograph?
- 2. How do you think a sand painting is made?
- 3. Sand paintings are usually destroyed soon after they are finished. Why do you think this is done?

#### **Context Clues**

It is not necessary to look up every new word in the dictionary. Often, the other words and ideas in the sentence or surrounding sentences (the context) can help you guess the meaning of the new word. When you are reading, try to use context to guess the meaning of new words. Try not to look up every new word in your dictionary.

The words in **bold** print below are from this lesson. Use context clues to guess what each word means. Do all of the Context Clues exercises in the book this way.

- More than 500 years ago, the ancestors of the Navajo people moved south.
- 2. A small sand painting may have 2 or 3 people working on it, while a large painting may **require** 10 people.
- At the end of the ceremony, it is imperative that the sand painting be destroyed. The Navajo believe that something terrible will happen if they don't do this.
- One reason for this change is the extensive training necessary to perform the duties of a singer; it can take as long as 14 years to train someone.
- A singer can train only one student at a time. This need for one-on-one training has limited the number of students who can be trained.

### **Navajo Sand Painting**

More than 500 years ago, the ancestors of the Navajo people left the cold northern region that is now part of western Canada and Alaska and migrated south to what is now the southwestern part of the United States. The area in which the Navajo finally settled is mainly desert. It is a harsh environment that gets little rain. The animals and plants that live there have had to adapt in order to survive in the unforgiving climate and

landscape.

10

When the Navajo arrived in the area, they too had to adapt to the harsh desert conditions in order to survive. They had to learn to make use of the natural resources in their environment to provide for their shelter, food, and other necessities. Over time, the Navajo became 15 famous for the things they were able to create from the natural resources at hand. One of the most famous Navajo creations is called sand painting.

Most people think of a painting as a work of art. For the Navajo, however, sand painting is not artwork. 20 Rather, sand painting is an important part of a religious ceremony. The making of a sand painting is part of a healing ceremony that is supposed to restore the health and well-being of a sick person.

The only people who are allowed to create sand 25 paintings are specially trained Navajo "singers" or "medicine men" and their assistants. A Navajo singer begins the process of creating a sand painting by collecting different rocks. The rocks are then crushed and ground into sand. Traditionally, a Navajo singer and his assistants make the sand painting on the floor of a small Navajo house called a hogan. Working under the direction of the singer, the assistants take colored sand in their hands and drip it on the floor in a line. Using different colors, they slowly make a picture.

The size of Navajo sand paintings varies. A small sand painting is less than a meter wide, while a large mostly; primarily

bring back; return to normal good mental and physical condition



35

sand painting can be over 6 meters wide. The number of people assisting the singer also varies. A small sand painting may have 2 or 3 people working on it and take an hour to complete, while a large painting may require 10 men and women and take all day to finish.

During the healing ceremony, the sick person moves onto the completed sand painting. The sick person sits directly on the sand painting so that it can **serve** as a pathway for **evil** or illness to leave the person's body and for goodness or health to return to it. This explains why the Navajo word for sand painting means "place where the gods come and go." After the sick person has been treated, other visitors may go up to the painting and dab some of the sand on themselves so that the sand painting brings health and well-being into their lives too.

At the end of the healing ceremony, it is **imperative** that the sand painting be destroyed. The Navajo believe that something terrible will happen if they fail to
55 destroy a sand painting **properly**. So, in the reverse of the order in which it was made, the singer sweeps the painting away and returns the sand to the landscape.

Navajo singers make their sand paintings from memory, and they always make the same pictures in exactly the same way. There are between 600 and 1,000 different pictures for sand paintings. At one point in history, there was one singer for every 150 Navajos. Today, the <u>ratio</u> is much lower, with one singer for roughly every 2,200 people. One reason for this change is the **extensive** training required to perform the duties of a singer; it can take as long as 14 years to train someone. A second reason for the change in ratio is that a singer can train only one student at a time. This need for **one-on-one** training has limited the number of students who can be trained.

While a true sand painting is part of a Navajo ceremony and lasts for only a short time, sand painting as a permanent art form has also developed. The first permanent sand paintings appeared in the early 1900s.

75 These early pieces of art were actually tapestries rather

correctly

relationship between two numbers

artworks made of cloth, often used as wall hangings



than paintings made with sand. The tapestries were woven by a respected Navajo singer named Hosteen Klah, who copied the pictures from sand paintings. However, to avoid causing something terrible to happen by making a permanent picture, Klah never made the picture exactly the same as the original. He would not use a Navajo picture without changing it a little. Before long, tourists in the area saw Klah's weavings and asked to buy them. Klah finally agreed to sell one of his weavings if the buyer promised never to put it on the floor or walk on it.

In the 1930s, the Navajo began creating another type of permanent sand painting. They made these permanent paintings by slowly dripping colored sand onto glue-covered boards. Today, these sand paintings are considered to be works of art rather than part of a religious ceremony. They are made by artists rather than singers, and they appear in art shows and in art museums.

There is still controversy over the selling of sand paintings. Some Navajos say that sand paintings are part of their religion and should not be sold. But others believe that the artists' changes to the pictures protect their religious power. made from yarn into cloth; past participle of weave admired

### **a** Vocabulary

In this book, difficult words are repeated several times in the exercises. These words are also repeated and reviewed in other lessons. It is not necessary to list new English words with their meanings in your own language. You will learn them just by practicing.

In the Vocabulary exercises in this book, write the correct word in each blank. Use a word only once, and use capital letters if they are necessary.

	one-on-one	original	tapestries	ancestors	
	assistant	landscape	evil	well-being	
1.	The	way to c	lestroy a sand pair	nting is to sweep it	
	away.				
2.	To become a Na	ivajo singer, a pers	on needs	training,	
	or private instru	action.			
3.	People have dif	ferent likes and dis	slikes. That's why	there is always	
		about what r	nakes good art.		
4.	There are 10 me	en and 5 women in	a class. That's a $\_$	o	
	2 to 1.				
5.	The	in some	parts of the countr	ry is mountainous.	
6.	You should make a copy of your birth certificate and then put the				
		in a safe plac	e.		
7.	I apologize for s	speaking to you _	anno 12 metatrio	, but I was very	
	angry.				
8.	He can't do all	the research by hin	nself. He really nee	eds an	
		tonging enmoy	name (new )	alternative supportable	
9.	You can be certa		live	ed very differently	
	from the way w				
0.		ays concerned abo	ut the	of their	
	children.				
1.	The Navajo beli	ieve that a sand pa		drive	
	Name and the same	out of a pers	on.		
2.	Navajo	are v	ery expensive, but	they look beautiful	
	hanging on a w	all.			

### b

### Vocabulary

o thi	is exercise the	e same way you did Ex	ercise a.	A HERMAN MORE BELL TO	
	dapt	heal	restore	require	
	erve	imperative	weave	extensively	
re	espect	promises	mainly	unforgiving	
1. H	low long w	ould it take you to _		_ to a completely	
d	ifferent env	ironment?			
2. In	n some cult	ures, shaking hands ,	when you meet so	omeone is a sign of	
3 )	ou can't de	pend on people who	break their	; you	
	an never be	sure they will do w	hat they say they	will do.	
4 I	f von cut vo	ourself, you should c	lean the cut so tha	it it can	
7. 1	i you car y	properly.			
5 7	Eo got a driv	ver's license, it is		that you learn the rules	
	of the road.				
2 3	Defens bo so	ould write his report,	he had to study t	he topic	
6.	Before he co	uid wille his report,	The filler of		
7.	A loom is a	frame or a machine	that is used to	cloth	
	and tapestr	ies.			
8.	Their house	is made	of wood	d, but there is a little	
		on the front.			
		woven material can	107 10 200	as a wall hanging or	
	rug.				
		any different things	to	his health.	
	Did your p		you to hel	p out with the cooking	
11.			×== yunyii	\$11 SULES (\$2) SULES (\$2,000)	
4.0		ng at home?	never lets you fo	rget the things you did	
12.	. An person never lets you forget the things you d wrong; an climate never lets you forget how hars				
	wrong; an		. CHIMATE HEVEL ICC	0,000,000	
	it is.				

### Comprehension Check: True/False/Not Enough Information

Write **T** if the sentence is true, **F** if it is false, and **NI** if there is not enough information in the text to answer the question. Change the false sentences to make them true, or explain why they are false. Do all the True/False/Not Enough Information exercises in the lessons this way.

	_ 1. Sand paintings play a role in Navajo religious ceremonies.
	2. Navajo sand paintings are usually created by a "singer," who
	paints a picture on a wall.
	3. The ancestors of the Navajo made sand paintings.
	<ul> <li>4. Most sand paintings are very small, measuring less than a meter wide.</li> </ul>
2 11	5. The purpose of a sand painting is to help someone who is ill become well.
	_ 6. During a healing ceremony, no one can touch the sand painting.
	7. Many Navajos believe that something bad will happen if they don't destroy a sand painting correctly.
	8. Navajo singers never paint pictures of the same things; every picture is very different.
<u></u>	_ 9. It is quite difficult to become a Navajo singer.
1	_10. Today, many tourists participate in Navajo religious ceremonies

### d Comprehension Questions

Answer these questions in complete sentences.

- 1. Where did the Navajo's ancestors come from?
- 2. What happens during a Navajo healing ceremony?
- 3. How is a traditional sand painting made?
- 4. What happens to a sand painting after the healing ceremony?
- 5. Why are there so few Navajo singers today?
- 6. What role did Hosteen Klah play in the development of sand painting as an art form?
- 7. How are the sand paintings in museums different from the sand paintings used in healing ceremonies?



#### Reading Strategy: Taking Notes in a Chart

It often helps to take notes as you read. Taking notes can help you to understand and remember what you read. One simple way to take notes is in a T-chart like the one below.

On the left side of the chart, you'll find the topic of each of the first six paragraphs. On the right side, write the main idea.

Topic	Main idea
the migration of the ancestors of the Navajo	They moved to what is now the southwestern United States.
adapting to desert life	evilay (Nevadil de alife
the purpose of a sand painting	
making a sand painting	Hayr suproved
the size of a sand painting	
the healing ceremony	alay super-property super-

### f

#### Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below. Use a word from line 1 in sentence 1, and so on. You may have to change the verb form or make the noun plural.

	Verb	Noun	Adjective	Adverb
1.	adapt	adaptation	adaptable	
2.	heal	healer	healing	
3.	restore	restoration	restorative	
Į.	require	requirement	required	
i.	reverse	reversal		
· .	extend	extension	extensive	extensively
		controversy	controversial	
3.	weave	weaving	woven	
).	respect	respect	respectful	respectfully
),	originate	origin	original	originally

1. He was	sn't able to	to the I	iving conditio	ns here, and
so he re	eturned home.			
2. A medi	ical doctor is a trained $\_$			
3. When	you are tired from work	ing hard, a vaca	tion can be	
4. What a	re the	for becomin	ıg a Navajo sir	nger?
5. First sh	ne drove the car forward	, and then she $\_$		
direction	on and drove backward.			
6. To get a	a PhD, you have to do _		research.	
7. In the l	United States, the issue of	of who should o	wn a gun is ve	ery
8 His par	rents taught him how to			
	s taught to speak			a mara to
	I wanted			
an artis	et.			
<b>g</b> Gran	mmar Review: Article	S		
Put an artic	ele ( <b>the, a,</b> or <b>an</b> ) in each b	lank if one is need	led.	
1. More th	an 500 years ago,	_ ancestors of _	Navajo	people left
	cold northern region tha	it is now	part of	_ western
	and Alaska.			
2. Most pe	ople think of pa	inting as	work of art.	
3. Sand pa	inting is importa	ant part of	_ religious ce	remony.
	of Navajo sand			
painting	g is less than a meter wic neters wide.			
5. Today, th	hese sand paintings are	considered to be	e work	s of art rathe
COLUMN DESCRIPTION DE CONTRA	rt of religious ce			
	nan singers, and they ap	The second secon	The second secon	
museum		and the contract of		

#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: The ancestors of the Navajo migrated south. They eventually settled in a desert area.

- Models: a. The ancestors of the Navajo migrated south, and they eventually settled in a desert area.
  - b. The ancestors of the Navajo migrated south and eventually settled in a desert area.
  - c. The ancestors of the Navajo migrated south, eventually settling in a desert area.
- 1. The Navajo singer sweeps the sand painting away. Then he returns the sand to the landscape.

a	
h	
υ	
C	

- 2. Sick people sit on the sand paintings. They wait for the illness to leave their bodies.

### Writing

Every culture has its own kinds of art. What is a traditional art form in your culture? Write a paragraph about a traditional art form from your culture. If you can, bring a picture to class to show an example of this kind of art. When you finish, exchange paragraphs with a partner.

### lesson

### **Ceramics**

# 2



Before You Read

- 1. Do you own anything made of clay, such as a bowl or a plate? If so, what does it look like?
- 2. Why do people use clay to make dishes?
- 3. How is a clay dish made?

#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- Much of what we now know about cultures of the past we learned by studying pieces of their clay dishes and clay figures.
   Very few things made from other materials have survived to tell us about the cultures that produced them.
- Baking clay at very high temperatures actually changes the clay so that it become permanently hard and almost indestructible.
- Potters in different parts of the world found interesting ways to decorate their work to make it more attractive.
- After baking the clay pot, the potter must carefully remove it from the oven and let it cool slowly. If it cools too quickly, it could crack and break.
- Over the years, clay objects have served many purposes. Obviously, one of the most common uses of pottery is for household dishes.





The most ancient <u>artifacts</u> in our <u>possession</u> today were made out of clay many thousands of years ago. In fact, much of what we now know about cultures of the past we learned by studying pieces of their clay dishes and clay figures. Very few things made from other materials have survived to tell us about the cultures that produced them.

Objects made from clay came to be called ceramics from the Greek word *keramos*, which means "potter's clay." Ceramics are divided into many different kinds based on the type of clay used and how the clay is **fired**. The most common types of ceramics are pottery, stoneware, and porcelain. To make pottery, for example, clay is fired at about 500°C. Clay fired at about 1,200°C

15 becomes stoneware. When white clay is fired at an even higher temperature, it becomes porcelain. Baking the clay at such high temperatures actually changes the <u>structure</u> of the clay so that it becomes permanently hard and almost indestructible.

The art of making pottery developed in many places around the world. Some of the earliest pieces of pottery were probably made when people tried to strengthen baskets woven of grass and sticks. Some archeologists think that early potters in China may have covered the inside of woven baskets with clay so that the baskets would hold water. When the baskets were either placed on a fire or left there by mistake, the fire burned the grass away and turned the baskets into hard, durable pots.

Early potters in different parts of the world found interesting ways to decorate their work to make it more attractive. They scratched the surface of the soft clay to make decorative lines and designs. They also used glazes, which are a special kind of paint, to make clay objects smooth, shiny, and colorful. The Egyptians were already decorating their pottery with colors and designs

human-made objects of historical interest ownership

the way something is put together

long-lasting



about 5,000 years ago. Similar styles began to spread throughout the Mediterranean region. By 3,500 years ago, the people of the Greek island of Crete were producing their own pottery decorated with designs and images of animals. These designs survived thousands of years and can still be seen in examples of ancient Greek art.

The pottery makers of China were the first to learn
to make porcelain, which is the finest and most fragile
type of pottery. If you hold a piece of porcelain up in the
air, light will shine through it. The Chinese exported
porcelain to Europe, where it became highly valued. For
many years, European potters tried to copy Chinese
porcelain, but it was not until 1710 that a German
scientist finally learned how to make it. By the end of
the 18th century, other European countries were also

the 18th century, other European countries were also producing porcelain, and today France and England produce some of the finest porcelain in the world.

There are different ways to form a clay dish or bowl. The easiest method is to simply hollow out a clay ball, using your hands. Another simple method is to roll the clay into a long "rope" and then wind it into a shape. A third method is to spread the clay around something.

The invention of the potter's wheel more than 5,000

years ago introduced an <u>entirely</u> new way to form a clay object. With this method, the potter places some clay in the center of a round, flat wheel that can turn very fast. As the wheel turns, the potter uses his or her

65 hands to shape the clay. Using a potter's wheel makes it possible to form clay objects that are smoother and more <u>uniformly</u> round.

A clay object is usually decorated first and then baked. Baking the clay at very high temperatures makes it hard and strong. Firing also makes the glaze stick to the pottery. When the firing is completed, the potter must carefully remove the pottery from the oven and let it cool slowly. If it cools too quickly, it could crack and break.

Over the years, clay objects have served many purposes. Obviously, one of the most common uses of

make into a circular shape (around something)

completely

evenly; the same all around



pottery is for household dishes. Because pottery is strong and waterproof, it makes an excellent dish for carrying, storing, cooking, and serving food. Fired clay 80 has also been used to make bricks for building houses and to make tiles for covering floors. Ceramics are also incredibly heat resistant, so they can be used where metal would melt or become weak. Today, ceramics are

important in industry and engineering.

One rarely discussed use of ceramics is for burial ceremonies. In some cultures, special ceramic objects were buried along with the dead person. Archeologists think these ceramic objects were made especially for burial ceremonies because their decoration is elaborate.

90 In some cultures, parts of a dead person's body were removed, placed in ceramic vases, and then buried with the body. Ceramic objects showing a dead person's title and offices held have also been found at burial sites.

Some people refuse to consider the making of
ceramics an art form because the objects created are so
often useful things. At the same time, however, many of
those useful ceramic things are extremely valuable.
Some are even kept in museums. In the country of Iran,
ancient pottery is considered to be so valuable to the
culture that there are harsh **punishments** for anyone
who tries to take ceramic artifacts out of the country.
The punishments range from paying money to time in
jail. That is certainly a clear indication that ceramics are
valued by many people.

very; extremely

### **a** Vocabulary

Write the correct word in each blank. Use a word only once, and use capital letters if they are necessary.

	fired	scratch	wind	spread	
	resist	punishment	crack	artifacts	
	possessions	durable	structure	decorate	
1.	Many	from	ancient cultures are	kept in museums.	
2.	You can use a glaze	to	a piece o	f pottery.	
3.	There is a serious _		for stealing a	ncient artifacts.	
4.	Ceramics are more		than tapestr	ies.	
5.	Ceramics are		_ in a special kind o	of oven called a kiln.	
6.	You can use your fi	ngernail to _		word into clay.	
7.	During the war, many people put their most valuable				
		_ into a suite	ase and left the city.		
8.	When you are very	hungry, it's d	lifficult to	eating	
	something.				
9.	The bowl wasn't w	orth much be	cause it had a long _	Alter Internation	
	in it.				
10.	Do you	any	thing on your breac	l before you eat it?	
11.	I need to work on t	he	of my pa	per; it is not clear	
	how the ideas fit to	gether.			
12.	They tried to		_ the cloth around l	nis leg to stop the cut	
	from bleeding			andrew va balling	

### **b** Vocabulary

Do this exercise the same way you did Exercise a.

indestructible style finest fragile punish entire uniform purpose incredible jail materials in fact

2.	Machine-made dishes are more.	than hand-made	
	ones.		
3.	If you drop something	, it will break.	
4.	Do you know what	are used to make porcelain?	
5.	The restaur	rant in town is also the most expensive.	
6.	6. His story is I just can't believe it.		
7.	Did your parents ever	you by sending you to bed	
	without dinner?		
8.	My grandmother spent her	life in California. She	
	never lived anywhere else.		
9.	In the 1970s, a funny	of pants with wide legs at the	
	bottom was popular.		
10.	If you break a law, you might ha	ve to go to	
11.	What is your	for studying English?	
12.	Something that is almost	will last for a very long	
(	Comprehension check. Iru	e/False/Not Enough Information	
Wr			
	rite $T$ if the sentence is true, $F$ if it is $f$	false, and <b>NI</b> if there is not enough	
	ormation in the text to answer the qu	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make	
_	ormation in the text to answer the qu m true, or explain why they are false.	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make	
	ormation in the text to answer the quantum true, or explain why they are false.  1. Plates and bowls are example.	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make mples of pottery.	
	ormation in the text to answer the quantrue, or explain why they are false.  1. Plates and bowls are example. 2. The word ceramics comes	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make mples of pottery. from the Greek word for "potter's clay."	
	ormation in the text to answer the quantrue, or explain why they are false.  1. Plates and bowls are example. 2. The word ceramics comes	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make mples of pottery. from the Greek word for "potter's clay."	
	ormation in the text to answer the question in the text to answer the question in true, or explain why they are false.  1. Plates and bowls are example 2. The word ceramics comes 3. The earliest forms of pottons.	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make  mples of pottery. from the Greek word for "potter's clay." ery were made in Crete about 7,000 years	
	ormation in the text to answer the quantum true, or explain why they are false.  1. Plates and bowls are example.  2. The word ceramics comes.  3. The earliest forms of potting.  ago.  4. Porcelain is made from he	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make mples of pottery. from the Greek word for "potter's clay." ery were made in Crete about 7,000 years ard, red clay.	
	ormation in the text to answer the quantrue, or explain why they are false.  1. Plates and bowls are example.  2. The word ceramics comes.  3. The earliest forms of pottingo.	false, and <b>NI</b> if there is not enough estion. Change the false sentences to make mples of pottery. from the Greek word for "potter's clay." ery were made in Crete about 7,000 years ard, red clay. shape clay.	
	ormation in the text to answer the quantrue, or explain why they are false.  1. Plates and bowls are example.  2. The word ceramics comes.  3. The earliest forms of potting.  4. Porcelain is made from ham.  5. There is only one way to see	false, and NI if there is not enough estion. Change the false sentences to make mples of pottery. from the Greek word for "potter's clay." ery were made in Crete about 7,000 years ard, red clay. shape clay. orcelain.	
	m true, or explain why they are false.  1. Plates and bowls are example.  2. The word ceramics comes.  3. The earliest forms of potting.  4. Porcelain is made from hem.  5. There is only one way to some.  6. The Germans invented potential.	false, and NI if there is not enough estion. Change the false sentences to make imples of pottery. from the Greek word for "potter's clay." ery were made in Crete about 7,000 years ard, red clay. shape clay. orcelain. an porcelain.	
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### Com

#### Comprehension Questions

Answer these questions in complete sentences.

- 1. What are ceramics?
- 2. What are ceramics used for?
- 3. Why are clay pots baked, or fired?
- 4. What are Chinese potters famous for?
- 5. What is the difference between pottery and porcelain?
- 6. How does a potter shape the clay?
- 7. What can we learn from the decoration on ancient pottery?
- 8. Do you think the making of ceramics is an art form? Why or why not?

### e

#### Reading Strategy: Distinguishing Facts and Opinions

When you read, it's important to distinguish facts from opinions. A fact is something known to be true, while an opinion is what someone believes or thinks is true.

Identify each statement below as a fact or an opinion. Write Fact or Opinion on the line preceding each sentence.

1. Some of the earliest pieces of pottery were probably

- made when people tried to strengthen baskets woven of grass and sticks.2. Some archeologists think that early potters in China
- may have covered the inside of woven baskets with clay so that the baskets would hold water. 3. By about 3,500 years ago, the people of the Greek
- island of Crete were producing their own pottery decorated with designs and images of animals.
  - The pottery makers of China were the first to learn to make porcelain.
- 5. Baking the clay at very high temperatures makes it hard and strong.

Archeologists think some ceramic objects were made
especially for burial ceremonies because their
decoration is elaborate.
7. Ceramic objects showing a dead person's title and
offices held have been found at burial sites.
Property and the control of the cont
Vocabulary Expansion: Multiple Meanings
Study the different meanings of each word below. Then read the sentences and choose the correct meaning for the word as it is used in each sentence. Write the letter of the definition on the line preceding each sentence.
wind a noun the natural movement of air outdoors b verb to wrap around c verb to turn and tighten
1. The line of people in front of the store is so long that it winds
around the corner.
2. There is a strong wind outside today.
3. You can wind a clock or a watch.
fine discharge
a noun money paid as a punishment for wrongdoing b verb to order payment for wrongdoing c adjective excellent
4. That's a fine piece of pottery.
5. The police fined him for driving too fast.
6. If the police catch you speeding, you will have to pay a fine.
uniform CONTROL (see a soul of the seed the seed the seed to see a soul of the seed to see a see
<b>a</b> <i>noun</i> a special type of clothing worn by members of an organization <b>b</b> <i>adjective</i> the same throughout
7. In most countries, the police wear uniforms.
8. When the height of the trees is uniform, they make a straight line.



### Grammar Review: Prepositions

Complete the paragraphs	with the	e correct	prepositions	(about,	in, from,	of, for,
or to).						

The n	nost ancient artifacts (1) our possession today were made out
(2)	_ clay many thousands (3) years ago. In fact, much
	what we now know about cultures (5) the past we learned
	ing their clay dishes and clay figures. Very few things made
(6)	_ other materials have survived to tell us (7) the cultures that
produced	d them.
Some	people refuse to consider the making (8) ceramics an art
form bec	ause the objects created are so often useful things. At the same time,
however	, many useful ceramic things are extremely valuable. Some are even
kept (9) .	museums. In the country (10) Iran, pottery is
consider	ed to be so valuable to the culture that there are harsh punishments
(11)	anyone who tries to take ceramic artifacts out (12) the
country.	The punishments range (13) paying money (14) jail or
even dea	
19220000	
h Se	entence Combining
	example and the model combinations below. Then rewrite sentences 1 to 3 the models.
Example:	You can make pottery with clay. You heat it to about 500°C.
Models:	a. To make pottery, you heat clay to about 500°C.
	b. You can make pottery by heating clay to about 500°C.
	c. Pottery is made by heating clay to about 500°C.
	an make porcelain with white clay. You heat it to a very high erature.
a	2. Pisking werd jelt at Neth, high kemperaturan mukes it i
b	



2.	You can make a cake with flour, eggs, sugar, and milk. You mix everything together and bake it for an hour.
	a
	b
	С
3.	A smoothie is a drink made of fruit, such as bananas and strawberries. You can make a smoothie by mixing the fruit in a blender.
	a b
	b
	С
	Writing

Write about one of your possessions. Describe it, tell how you got it, and explain why it is important to you.

### lesson

### **Cave Paintings**

3



## ----

#### Before You Read

- 1. How old do you think this painting is?
- 2. What kind of animal is shown in the painting?
- 3. What does the painting tell you about the place where it was found?

#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- On December 18, they noticed the half-covered entrance to an unnamed cave. Even though it didn't look like a very interesting cave, Eliette Deschamps pushed herself through the small opening.
- The three explorers returned to their truck to get a ladder, and even though it was already dark, they decided to go down into the cave.
- Many of the paintings are very detailed. For instance, several of the pictures of lions show the varied patterns of spots on their faces.
- 4. When Jean Clottes was asked about the cave paintings, he said, "I was deeply moved when I saw the paintings. They're as good as any art made anywhere in the world."

### 3 Cave Paintings



In December 1994, three <u>amateur</u> cave explorers— Jean-Marie Chauvet, Eliette Brunel Deschamps, and Christian Hillaire—were investigating an area in southeastern France. On December 18, they **noticed** the

5 half-covered entrance to an unnamed cave. Although it didn't look like a very interesting cave, Eliette Deschamps pushed herself through the small opening. To her surprise, she saw a huge cave below. The three explorers returned to their truck to get a ladder, and

10 even though it was already dark, they decided to go down into the cave. Once there, they discovered a <u>vast</u> network of rooms. On the walls were some of the most beautiful paintings they had ever seen.

The cave discovered on December 18, 1994, is now called Chauvet Cave, after one of the amateur explorers

not professional; doing something for fun, not as a job

even though

very large; enormous



who discovered it. Archeologists who inspected the cave paintings soon after they were discovered estimated that the paintings were about 17,000 years old. A few months later, however, tests showed that 20 three of the animals in the paintings were at least 31,000 years old. That meant the paintings in Chauvet Cave were the oldest existing cave paintings in the world.

There are more than 300 paintings in Chauvet Cave. Seventy-three of the paintings are of a type of lion that 25 is now extinct. Other paintings show panthers, horses, mammoths, wooly rhinoceros, and other animals. There are also tracings of human hands as well as symbols such as dots forming a semicircle.

Many of the paintings are extraordinarily detailed. For instance, several of the pictures of lions show the varied patterns of whisker spots that biologists today use to identify individual animals. The artists used the natural curves of the cave walls to make the animals look real. They used shading and color (black, red, and 35 yellow) to add depth to their paintings. When the French archeologist Jean Clottes was asked about the cave paintings, he said, "I was deeply moved when I saw the paintings. They're as good as any art made anywhere in the world."

The paintings in Chauvet Cave were most likely done by a number of artists. Some of the paintings are extraordinarily sophisticated. With simple lines and shading, the artists created exquisite pictures of wild animals in action. Some of the paintings, however, are 45 stiff and stylized, and others are quite rough and amateurish. Some archeologists have suggested that the painters worked with assistants. Perhaps the assistants made the rough paintings while trying to copy their teachers' paintings.

When the paintings in Chauvet Cave were discovered, they were perfectly preserved on the stone walls. No sunlight had entered the cave from the time the paintings were made until Chauvet and his friends found them. Unfortunately, the simple act of exposing paintings so that people can see them can cause the

copies made by drawing around something half of a circle extremely; very for example

complex perfectly made moving; doing something not showing movement well not very high quality



50

40

paintings to disappear. This happened to the paintings in another cave—within six months of the opening of the cave, the paintings had vanished. Now scientists know that they must enter caves carefully and prevent light and air from damaging the pictures. Today, Chauvet Cave is closed to the public, because even the breathing of a large number of people could damage the paintings.

Perhaps the most interesting thing about Chauvet

65 Cave is that it has forced archeologists to change their
ideas about art. For many years, archeologists believed
that it took thousands of years for humans to gradually
learn how to draw and paint. Chauvet Cave showed
that there were great artists 30,000 years ago. Jean

70 Clottes summed it up, saying, "Our ancestors did not need millennia of trial and error to achieve great art. Artistic capacity was one of the components of our species probably right from the start."

Chauvet Cave is only one of many cave in the
world that have been decorated by ancient paintings. In
Australia, South Africa, China and many other places,
extraordinary ancient works of art have been found.
Why did prehistoric people make these paintings?
Perhaps they believed that painting the animals gave
the artists special strength or powers. Perhaps the
paintings were part of a ceremony, or perhaps they were
thought to hold some sort of magic. The aniwer to this
question will probably always remain a mostery.

experimentation; testing parts

### a Vocabulary

	amateur	ladder	exquisite	trial and error
	tracing		curve	semicircle
	stiff	rough	preserved	millennium
1.	On January	, 1, 2000, a new		started.
				rials while trying to inven
	the light bu successful.	ilb. After years of _		, he was finally
3.	You can us	e a	to gel up to	the roof of the house.
4.	A professio	onal athlete earns n athlete c	noney for playing	a sport, while an
5.		are driving a car, y in		own when you come to a
6.	One way to	make a copy of so	omething is to mak	ke a
7.		ple had refrigerato	rs, they	their food in
	jars.			
	Half of a ci		Service Control	
9.	If you sleep	o on an uncomforta in the m		k might feel
0.	When you	write something, i	t's a good illea to v	vrite a
		draft fire	st, just to get your	ideas down on paper.
11.	Do you kn	ow how to	an o	riginal Navajo tapestry?
				_ vase buried in the
	ground; it	must be very valua	ble.	
b	Vocabu	lary		
	notice moved expose	components means in action	for instance	extraordinarily sophisticated shading
1.	The word	turable	long-last	ting.
2.	Unlike a pe	ond or a lake, an oc	ean is	
	-			



<ol><li>In very cold weathe</li></ol>	r, it's not a good idea to	your
hands to the cold air	r.	
4. Did you	how many people	e were in the room?
	rson would not be	
pictures of the disas		
6. Einstein was an	intelligent	t person.
7	the paintings were made t	housands of years ago,
they are still in very	good condition.	
8. Today, ceramics are	used to make some of the _	of the
space shuttle.		
9. It's hard to believe t	hat such	pictures were made by
a young child.		
	are of animals.	
Chauvet Cave show	lions, horses, and even a pa	anther,
1. The photos taken of	the soccer match showed th	ne players
C Vocabulary Rev	and color to ad	
latch the synonyms (wor	ds that mean the same)	
1. durable	as mun menn me sume).	
	a. even	
2. incredibly	a. even	
	a. even b. disagreement	
3. uniform	<ul><li>a. even</li><li>b. disagreement</li><li>c. cure</li></ul>	
3. uniform 4. extensive	<ul><li>a. even</li><li>b. disagreement</li><li>c. cure</li><li>d. indestructible</li></ul>	
3. uniform     4. extensive     5. controversy	<ul><li>a. even</li><li>b. disagreement</li><li>c. cure</li><li>d. indestructible</li></ul>	
3. uniform     4. extensive     5. controversy     6. heal	a. even b. disagreement c. cure d. indestructible e. helper f. mostly	
3. uniform 4. extensive 5. controversy 6. heal 7. purpose	<ul> <li>a. even</li> <li>b. disagreement</li> <li>c. cure</li> <li>d. indestructible</li> <li>e. helper</li> <li>f. mostly</li> <li>g. extraordinarily</li> </ul>	
2. incredibly 3. uniform 4. extensive 5. controversy 6. heal 7. purpose 8. assistant 9. original	a. even b. disagreement c. cure d. indestructible e. helper f. mostly g. extraordinarily h. first	
3. uniform 4. extensive 5. controversy 6. heal 7. purpose 8. assistant	a. even b. disagreement c. cure d. indestructible e. helper f. mostly g. extraordinarily h. first i. reason	

### d Comprehension Check: Multiple Choice

Circle the letter of the best answer.

			0.0	
1	Chauvet Ca	TAX TAX TO	diecovered	
11.2	Chauverca	ve was	THE CONFIECT	

- a. in the 19th century
- b. by Jean Clottes
- c. by amateurs
- 2. The paintings on the walls of Chauvet Cave are about \_\_\_\_\_ years old.
  - a. 300
  - b. 17,000
  - c. 31,000
- 3. The paintings of animals in Chauvet Cave are \_\_\_\_\_
  - a. well preserved
  - b. of one kind of animal
  - c. very rough
- 4. The most sophisticated paintings in the cave are \_\_\_\_\_
  - a. very rough
  - b. very realistic
  - c. very stiff
- 5. Chauvet Cave is closed to tourists because
  - a. it's difficult to get to the cave
  - b. visitors could damage the paintings
  - c. it's located on privately owned land
- 6. The paintings in Chauvet Cave are well preserved because
  - a. they have been protected from light and air since they were made
  - b. they were made with charcoal
  - c. they are very sophisticated
- 7. The paintings in Chauvet Cave surprised rcheologists because \_\_\_\_\_
  - a. they were so sophisticated
  - b. they showed pictures of animals
  - c. they were stiff and stylized
- 8. Before the discovery of Chauvet Cave, archeologists thought that
  - a. people painted for religious reasons
  - b. exposing cave paintings to light and air wouldn't damage them
  - c. people learned to draw and paint gradually over thousands of years

#### e Comprehension Questions

- 1. How was Chauvet Cave discovered?
- 2. What is special about the paintings in Chauvet Cave?
- 3. What three words might you use to describe the best paintings in the cave?
- 4. What did the artists do to make the animal paintings look real?
- 5. According to the reading, there are three kinds of paintings in the cave. What are they?
- 6. Why are the paintings in the cave so well preserved?
- 7. Why is Chauvet Cave closed to the public?
- 8. How did the Chauvet Cave paintings change the way archeologists think about human development?

### f

#### Reading Strategy: Making Inferences

When you make an inference, you draw a logical conclusion based on the facts that you have.

Fact: Your friend has a broken arm.

Logical conclusion or inference: Your friend had an accident.

Illogical conclusion: Your friend fell down the stairs.

What can you infer from the information in each sentence below? Check  $(\checkmark)$  the possible inferences.

	When Eliette Deschamps noticed that there was a huge cave below the opening, the three explorers returned to their truck to get a ladder. Even though it was dark, they decided to go down into the cave.  They were eager to see what was in the cave.  It was unusual to find such a large cave  The three explorers wanted to sleep in the cave.  The three explorers didn't usually go into caves at night.
2.	When the French archeologist Jean Clottes was asked about the cave paintings, he said, "I was deeply moved when I saw the paintings. They're as good as any art made anywhere in the world."  Clottes liked the paintings.  Clottes was angry when he saw the paintings.  Clottes thought the paintings were very rough.  Clottes thinks the paintings are very so histicated.

### g

### Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

	Verb	Noun	Adjective	Adverb
1.	perfect	perfection imperfection	perfect imperfect	perfectly imperfectly
2.	mean	meaning	meaningful meaningless	
3.	trace	tracing		
1.		roughness	rough	roughly
5.		sophistication	sophisticated unsophisticate	
6.		amateur	amateur amateurish	
7.	identify	identification identity	identifiable	identifiably
8.	notice	notice	noticeable	noticeably

a. By the time she was three years old, she could write her name

 b. Athletes spend years trying to \_\_\_\_\_\_\_\_ their style.

 a. Do you know the \_\_\_\_\_\_\_ of the word stiff?

 b. She said tomorrow, but I think she \_\_\_\_\_\_\_ to say the day after tomorrow.

 If you put a clear piece of paper over the drawing, you can \_\_\_\_\_\_\_ it.
 The \_\_\_\_\_\_\_\_ of some of the paintings surprised people.
 The \_\_\_\_\_\_\_\_ of many ancient paintings shows that good art is nothing new.
 He's usually a great actor, but last night he gave an \_\_\_\_\_\_\_

performance.

7.	She	herself by giving her	name and address.
8.	The colors on the	e paintings were barely	I almost
	didn't	them.	

### h Grammar Review: Irregular Verbs

Study the irregular verbs in this list. Then choose the correct verb form to complete each sentence. Use a verb from line 1 in sentence 1, and so on.

F	resent	Past	Past participle
	forgive	forgave	forgiven
	weave	wove	woven
	wind	wound	wound
	spread	spread	spread
	mean	meant	meant
	go	went	gone
	hold	held	held
	see	saw	seen

1.	She never	her brother for leaving home.
2.	He owns a tapestry	by the Navajo.
3.	She	_ a bandage around her leg and then fastened it
	with tape.	
4.	International organizat	ions are working to stop the of
	serious diseases.	
5.	He	_ to call her yesterday but he forgot.
	How many times have	
7.	A big celebration was .	soon after the discovery of the
	paintings.	
8.	Very few people have	the paintings in Chauvet Cave.

### Sentenc

#### Sentence Combining

Read the examples and the model combinations below. Then rewrite sentences  $1\ {\rm to}\ 4$  following the models.

Example: Some of the paintings are stiff and stylized. Others are quite rough.

- Models: a. Some of the paintings are stiff and stylized, and others are quite rough.
  - b. Some of the paintings are stiff and stylized, while others are quite rough.
  - While some of the paintings are stiff and stylized, others are quite rough.

)	
	shed herself through the opening. The other two waited
outside.	
utside.	

Example: Many caves in the world have been decorated with paintings. Chauvet Cave is one of them.

- Models: a. One of many caves in the world that have been decorated with paintings is Chauvet Cave.
  b. Chauvet Cave is one of many caves in the world that have been
  - b. Chauvet Cave is one of many cave in the world that have been decorated with paintings.
  - c. Chauvet Cave, like many caves in the world, has been decorated with paintings.
- 3. Many archeologists have seen Chauvet Cave. Jean Clottes is one of them.

  a. \_\_\_\_\_

  b. \_\_\_\_

  c. \_\_\_\_

4.	Many animals have become extinct. The wooly	rhinoceros is one of them.
	a	
	b	
	C	



# Writing

Imagine that you were the first person to see the paintings in Chauvet Cave. Write a short journal entry that tells what you saw and how you felt.

## lesson

# Graffiti

4



The same of the same of

## Before You Read

- 1. What are the painters above using to paint the walls?
- 2. What is your opinion of the painting in the photo? Is it beautiful? Is it art?
- 3. Do you think people should be allowed to paint on public walls? Why or why not?

## **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- Many examples of graffiti are carved on the walls of the ancient city of Pompeii.
- 2. Some of the graffiti on walls in Pompeii are declarations of love, while others are insults.
- Some of the graffiti in Pompeii are complaints about store owners who were cheating people.
- 4. Of course, not everyone likes or approves of graffiti on city walls.
- The city of Los Angeles bought several "paint stores on wheels" to combat graffiti. These vans traveled around the city looking for graffiti and painting over them immediately.

# 4 Graffiti

0

A quiet street, a blank wall, a can of spray p int—
and a young person goes to work writing graff ii. The
term graffiti means words or drawings scratched or
painted on a wall. The word comes from the Greek term
graphein, which means "to write." People have been
writing graffiti on walls for thousands of years but
today some people believe that certain types of graffiti
have evolved into a genuine art form.

Many of the oldest existing examples of graffiti are
from the ancient city of Pompeii on the western coast of ltaly. In the year 79, Pompeii was destroyed by the
eruption of Mt. Vesuvius. Ash from the volcano buried
the city, preserving much of it for us to see today. Carved
on the walls of Pompeii are many examples of graffiti.

15 Some of the graffiti are declarations of love, while others are insults. Some of the graffiti are complaints about store owners who were cheating people, while others are developed; changed true; real political statements or rough drawings of people.
Although the messages differ, the graffit have one
important thing in common; they were all written
without the permission of the owner of the wall. For
historians, however, these graffiti are some of the few
available sources of information about the lives of the
common people of Pompeii and their everyday concerns.

While people have been writing graffiti on walls for thousands of years, in the 1960s a new type of graffiti started appearing on city walls in the United States.

Some people called this type of graffiti gang graffiti" because it was made by gang members to identify their territory. Gang graffiti consisted simply of the gang's name, or "tag"; its purpose was to war other gangs to stay away. A gang's tag had to be distinctive and easy to make quickly, but it was not meant to be artistic.

By the end of the 1970s, the practice of "tagging" was no longer mainly a gang activity. I cople who had no connection to a gang were writing their names on flat surfaces all around the city. Their goal was to become famous by getting their name on as many surfaces as possible. However, as more and more people got involved in tagging, it became increasingly difficult for writers to get attention. This led some writers to begin experimenting with ways to make their tags stand out. Some started making their tags bigger and bolder, while others combined letters with pictures. As tags became increasingly claborate, individual styles could be identified.

From tagging, graffiti developed in to something called graffiti art, or aerosol art. Graffit artists combined their unique letter styles with pictures to create large paintings that covered an intire wall or the entire side of a subway car. During the 1970s and 1980s, the subway cars of New York became moving museum of art for graffiti artists. The jurpose of graffiti art, unlike that of gang graffiti, is self-expression and creativity. According to one graffiti art st, "Creating graffiti is an art, and just like any other art, it requires tons of practice and work." Today, most graffiti art is

a group of young people who join together for support and protection

different from others; special

be noticeable; be easily seen stronger; clearer



made with spray paint, although some artists also use brushes and markers. For graffiti artists, just about anything can serve as a surface for their artwork, even for rocks, roads, and billboards.

Of course not everyone likes or approves of the graffiti on city walls. In fact, most people think of creating graffiti as <a href="mailto:vandalism">vandalism</a> rather than art. For the majority of people, doing graffiti without someone's permission is not freedom of expression; it is a rogance. And the <a href="presence">presence</a> of graffiti in their neighborhoods makes many people feel less safe. Seeing graffiti all around them makes many people feel that danger is just around the corner.

In the 1980s, many cities started taking action against graffiti. The city of New York, for example, started a **campaign** to **get rid of** graffiti on subway cars. By painting over the graffiti soon after they were made, the city was able to discourage graffiti artists from

75 decorating the subway cars. Then, in 1987, a new type of paint-resistant subway car became available making it impossible for graffiti artists to paint on the cars. The city of Los Angeles bought several "paint store" on wheels" to combat graffiti. These vans traveled around

the city looking for graffiti and painting over them immediately. The city's goal was to discourage graffiti artists by painting over their graffiti within 24 hours. Other cities have used protective coatings and pecial building materials to prevent people from writing

85 graffiti. Although these solutions have been effective, they are very expensive.

Does this mean the end of graffiti? Not quite. In some countries, such as Japan, England, and the United States, graffiti artists are allowed to do their work on specially designated walls in a city. Graffiti art is shown in museums, and in Australia, well-known companies sponsor graffiti competitions. There are also hundreds of web sites dealing with graffiti art, as well as many books and instructional videos. And, of course, there are still people who will try to leave their mark on someone

95 still people who will try to leave their mark on someone else's wall.

the destruction of property for fun a feeling of self-importance

an organized effort to do something

chosen; specified

help to pay for



# **b** Vocabulary

10	distinctive campaign	bold combat	vandalism effective	presence designated
1.	Many people	feel nervous in the		of a famous person.
2.	Would you jo	in a	to stop ch	nildren from smoking?
3.	How	are y	ou about the env	rironment?
4.	Soon after the fighting.	two countries		_ war, they started
5.	- 17	c places you can sı areas.	moke only in spe	ecially
6.	What is the n	nost	way to ge	et rid of a fever?
		of money to		
		nshion designers ha		
9.	You can go to	jail for		
	cover.			to
11.	Young people be part of a g		Anillina	because they want to

## Vocabulary Review: Odd One Out

Circle the word that doesn't fit in each group.

- 1. adapt, cheat, evolve, change
- 2. get rid of, destroy, preserve, erase
- 3. genuine, extensive, vast, huge
- 4. approve of, agree with, preserve, like
- 5. indestructible, bold, durable, long-lasting
- 6. ancestors, artifacts, amateurs, sponsors
- 7. beautiful, distinctive, exquisite, attractive
- 8. kick, scratch, write, touch

# Comprehension Check: True/Fals /Not Enough Information 1. Ancient examples of graffiti still exist. 2. Ancient graffiti were painted on walls. 3. Modern graffiti are carved onto walls. 4. The purpose of gang graffiti is self-expression. 5. Graffiti artists started painting subway cars in New York in the 1950s. 6. The role of graffiti is a controver all topic. 7. The creation of graffiti is a form of vandalism. 8. Cities haven't spent much money removing graffiti. 9. Some cities provide special walls for graffiti artists to paint on. 10. There are fewer graffiti in New York today than there were 20 years ago.

# e Comprehension Questions

- 1. Why did people in ancient Pompeii write graffiti on walls?
- 2. Why do historians find graffiti useful?
- 3. What is the purpose of gang graffiti?
- 4. What is a "tag"?
- 5. What do graffiti writers do to make their lags stand out?
- 6. How is a tag different from graffiti art?
- 7. How was ancient graffiti different from modern graffiti?
- 8. What is the future of graffiti?





# Reading Strategy: Identifying the Main Idea

When you tell what a paragraph is about, you are identifying its topic. When you state the most important information about the topic, you are identifying its main idea.

In the chart below, identify the main idea in each paragraph of the reading on pages 37–39.

Paragraph	Topic	Main idea
1 (lines 1–8)	definition of graffiti	Grantti, or words and drawings written on walls, have been around for a long time.
2 (lines 9–24)	ancient graffiti	Graniti provide us with information about people long ago.
3 (lines 25–32)	gang graffiti	A special kind of graffiti in the 1960s introduced gang graffiti.
4 (lines 33–45)	tagging	(Set will be minute)
5 (lines 46–60)	graffiti art	
6 (lines 61–69)	attitudes toward graffiti	
7 (lines 70–86)	getting rid of graffiti	
8 (lines 87–96)	graffiti today	

# Vocabulary Expansion: Collocations

Study the collocation chart below, and then complete the sentences.

attention approval rid of noticed broken

<ol><li>If you dye your hair</li></ol>	r green, you wi	ill be sure to get
<ol><li>If you want to get _ open the windows.</li></ol>		a bad smell in the house, you ca
		might got
5. She couldn't get her	parents'	to get married.
h Grammar Revi	ew: Past Parti	iciples as Adjectives
forms. Irregular verbs l	erbs end in <i>-ed.</i> have irregular <sub>l</sub>	be used as an adjective. The past They are the same as the past tense past participles.
Examples: a painted wal a destroyed ci	II a discour ty a written	raged per on word
a destroyed & Choose one of the followin	ty a written ig past participle	t word es to complete each sentence below
a destroyed ci Choose one of the followin vandalized	ty a written  g past participle  required	es to complete each sentence below.
a destroyed ca Choose one of the followin vandalized woven	ng past participle required broken	es to complete each sentence below.  carv d designated  concerned - baked
vandalized woven  The museum owns s	ng past participle required broken	es to complete each sentence below.
Choose one of the following vandalized woven  The museum owns so Navajo Indians.  English is a	aty a written  ig past participle  required  broken  severalco	es to complete each sentence below.  carved designated concerned baked  tapestries made by the
Choose one of the following vandalized woven  The museum owns so Navajo Indians.  English is a	aty a written  ig past participle  required  broken  severalco	es to complete each sentence below.  carved designated concerned baked  tapestries made by the
A destroyed carboose one of the following vandalized woven  The museum owns so Navajo Indians.  English is a  We had	ty a written ig past participle required broken several co lasagr	es to complete each sentence below.  carv d designated concerned baked  tapestries made by the  burse at this university.  na for dinner.

. The	wall was quickly cleared up by the city.
. If th	nere is a fire, you should go immediately to the
	iting area.
	parents should meet with their children's teachers to
	cuss the problem.
i	Sentence Combining
	he example and the model combinations below. Then rewrite sentences 1 to 3 ing the models.
Exam	ole: There are many examples of graffiti in Pompeii. They are carved on the walls.
Mode	s: a. There are many examples of graffiti carved on the walls of Pompeii.
	<ul><li>b. Many examples of graffiti are carved on the walls of Pompeii.</li><li>c. Carved on the walls of Pompeii are many examples of graffiti.</li></ul>
1. Th	ere are many kinds of graffiti. They are written or painted on walls.
a.	
b.	
2.The	re are vans that travel around the city. They are filled with cans of paint.
a.	
b.	
	nere are several international graffiti competitions. They are sponsored by mous companies.
a.	
b.	
C.	
THE REAL PROPERTY.	
j	Writing
Can	graffiti be art? Write a paragraph in which you state your opinion and
	reasons for it.

Lesson 4: Graffiti

# Video Highlights

a

## Before You Watch

You are going to watch a video about the art of the Ndebele, one of South Africa's smallest ethnic groups. (See the photo.)
Working in pairs, use the words below to describe Ndebele art:

modern bold expert extraordinary beautiful traditional

complicated skillful



Roger De La Harpe; Gallo Images/CORBIS

# b

## As You Watch

- First, look at the sentences below. Can you guess the missing word or words? Now watch the video and complete the sentences.
  - a. In the beginning, the Ndebele built brown beehive-shaped huts. Today, Ndebele home, are \_\_\_\_\_\_.
  - b. The artwork on the houses is done by

C.	People can't believe it, but when they pain	the houses,	the Ndebele
	work without		

d. There's a lot of competition, so each family has its own

e.	The Ndebele are best known for the rings t	hat the women wear around
	their	

Watch the video again. Write down the four types of art that are shown and a brief description of each.

Description
scenes from Niebele life

# C

## After You Watch

Read the following quote from the video. Then answer the questions that follow as a group.

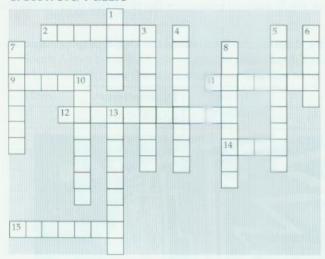
"Modern times have seen a decrease in the practice of cultural traditions. But the traditional Ndebele village is trying to preserve that artistic heritage."

- 1. Why are the Ndebele continuing their traditions?
- 2. How can art help to preserve culture?
- 3. Think about the lessons in this unit. How do these art forms reflect their cultures?
- 4. Are there any traditional villages in your country of origin? Describe them.
- 5. Would you like to live in a traditional village? Why or why not?



# **Activity Page**

## Crossword Puzzle



## Across

- 2. the same on every side
- The \_\_\_\_\_ of trained singers to the Navajo population of an area is very low.
- A \_\_\_\_\_ item is much more valuable than a fake one.
- 12. unique
- 14. The ocean is too \_\_\_\_\_ for us to see where it ends.
- 15. not professional

## Down

- 1. no smooth
- 3. thousands of years
- 4. the people who lived before us
- objects left behind by ancient civilizations
- 6. Clay becomes hard when it is
- 7. di licult to break
- The Chauvet Cave paintings
   were \_\_\_\_\_ because they were
   not exposed to sunlight that
   could damage them.
- 10. unlike anything that came before
- 13. Gangs used "tags" to mark their

10



# **Dictionary Page**

## **Choosing the Correct Definition**

Words often have more than one meaning. Read the dictionary definitions of *serve*, *mean*, and *concern*.

serve /sarv/ v. served, serving, serves [I;T] to act or function as: This table can serve as a de k. 2 [I;T] to act as a servant, clerk, server, etc.: The waitress served me coffee. 3 [I;T] to be in public office: The mayor served four years. 4 [I;T] to put a ball into play: to serve in tennis 5 [T] (in law) to give officially: A sheriff served a summons on the woman to appear in court.

mean /min/v. meant /ment/, meaning /minn/, means 1 [T] to indicate, have significance: That flashing red light means to stop your care and wait for the train to go by. | What does this word mean? 2 [T] to intend to, want to do s.t.: I meant to call home, but forgot to do it.

-adj. 1 wanting to hurt s.o.: That boy is mean, a real bully. 2 frml. extremely bad in quality: During dry periods, poor farmers can lead a mean existence.

con-cern /kən'sarn/ n. 1 [C;U] care, all ention: He shows constant concern about how his mother is feeling.
v. [T] 1 to be about: This letter concerns ayment for my new TV. 2 to deal with, care about or worry about: His mother's sickness concerns him a great deal.

Now read the sentences on the next page. Fill in each blank with the correct form of the correct word (*serve*, *mean*, or *concern*). Tell what part of speech the word is and write the number of the appropriate definition next to each sentence.



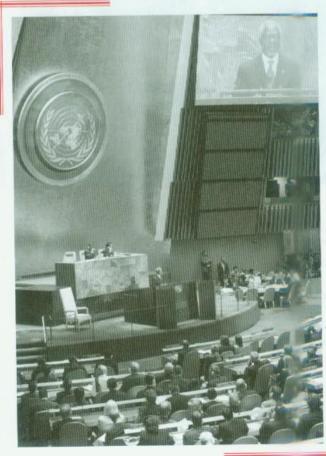
				Definition number
1.	His mother's sickne him a great deal.	ss concerns	verb	2
2.	The waitress me coffee.		HS I W	1991970
3.	That boy isa real bully.	*	100	
4.	The mayor four years.			
5.	This letter payment for my nev	v TV.		
6.	During dry periods, can lead a existence.	poor farmers	The state of the s	
7.	I but forgot to do it.	to call home,		
8.	This table canas a desk.			
9.	What does this word	d _?	10	= 9100,
10.	He shows constant	about how his		
	mother is feeling.			
11.	The tennis player	the ball to		
	her opponent.			+4



# **Organizations**

unit 2

An isolated individual does not exist. He who is sad, saddens others. —Antoine de Saint-Exupéry



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lesson

# The United Nations

1



Second Landson

## Before You Read

- 1. What do you already know about the United Nations?
- 2. Why was the United Nations recently in the news?
- 3. Do you think the United Nations is an effective organization? Why or why not?



#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- 1. The charter of the United Nations (UN) lists the four main goals and purposes of the organization.
- The headquarters of the United Nations is in New York City. This is where the General Assembly of the United Nations meets every year.
- Five members of the UN Security Council are permanent members. The remaining 10 members are elected by the General Assembly.
- The United Nations also organizes large international meetings, where people meet to discuss important world issues. One meeting was about the uses and ownership of oceans.

# 1 The United Nations



In 1945, delegates from 50 countries met in San Francisco, California, to make plans for an organization called the United Nations. World War II hed just ended, millions of people had died, and there was destruction everywhere. People hoped they could build a future of world peace through this new organization.

The charter of the United Nations (UN) states the four main goals and purposes of the organization. They are:

says formally

- To work together for international peace and to solve international problems;
  - 2. To develop friendly relations among rations;
  - To work together for human rights for everyone of all races, religions, languages, and of both sexes; and
- To build a center where nations can work together for these goals.

The United Nations has grown from an organization of 51 countries in 1945 to 191 nations in 2004. Today, almost every country in the world is a member of the UN. Each country that joins the United Nations signs an

- agreement that says:

  1. All members are equal.
  - All members promise to solve international problems in a peaceful way.
- No member will use force against another member.
  - 4. All members will help the UN in its actions.
  - The UN will not try to solve problems within countries except to enforce international peace

The headquarters of the United Nations is in New
York City. This is where the General Assembly, the main body of the United Nations, meets every year from September to December. The General Assembly is made up of representatives from each member country, who discuss issues related to peace and security and make recommendations. However, the General Assembly



does not have the power to enforce its recommendations. A second UN body, the 15-member Security Council, has the main responsibility for maintaining international peace. Five members—

Britain, China, France, the Russian Federation, and the United States—are permanent members of the Security Council. The remaining 10 members are elected by the

organ of the UN, the <u>Economic</u> and Social Council, is responsible for the social and economic work of the UN.

General Assembly and serve two-year terms. A third

Over the years, the United Nations has had some successes in its role of world peacemaker. It has negotiated 172 peaceful settlements and helped to end two wars. It has also helped to slow the spread of nuclear weapons by inspecting nuclear facilities in 90 countries.

As a peacekeeper, the UN has also had a number of successes. Since 1945, UN peacekeeping forces have been involved in 56 missions. They have supervised ceasefires and the withdrawal of troops, and they have monitored elections. Over the years, roughly 130 nations have participated in the peacekeeping missions. In 1988, the UN peacekeeping forces received the Nobel Peace Prize. Unfortunately, member nations have been unwilling to give UN peacekeeping forces the independence and financial support they need to be even more effective.

In evaluating the success of the UN, it is important to keep in mind that the organization has many functions in addition to preventing or ending wars. The United Nations is really a "family" of related organizations, which are working to provide a better life for people everywhere. One part of the UN family is UNICEF, an organization that provides food, medical care, and many other services to poor children wherever they live. Thanks to the efforts of UNICEF, he immunization rate of children in developing countries has jumped from 5 percent in 1974 to more than 80

percent today. Another part of the UN family is the
World Health Organization (WHO), which develops
medical programs for people all over the world. In 1980,

duty

related to the study of how society uses resources

achievements; good

job; position

brought people together to talk about and agree on

groups of soldiers

making a judgment



WHO announced that, after 13 years of work, it had succeeded in ridding the world of the disease smallpox.

To support its humanitarian efforts, the UN employs
thousands of people all around the world. They work as
planners to increase production in farming and
industry. They provide medical services improve
education programs, and spread scientific information.
They develop programs that provide jobs and better
living conditions. They also help countries control their
population growth.

The United Nations also organizes large international conferences, where people meet to discuss important world issues. One conference was about the uses and ownership of oceans; another was about women. The United Nations also designates a specific problem for people to focus on each year. For example, the year 2003 was declared the International Year of Fresh Water. During these special years, people work together to find solutions to the designated problems.

Many people believe that the best way for the United Nations to work for world peace is through its humanitarian activities. They hope that promoting contact and communication among people will make wars less likely.

professional meetings

## a Vocabulary

	delegates responsibility election	charter facilities maintain	state conferences announced	headquarters negotiate specific
L.	It's the job of the lar	ndlord to	the	apartment building
	in good condition.			
2.	The	of the co	ompany is in an exp	ensive new building
	Many professions h meet and share idea	ave annual		so that people can
ł.	We chose five back to us.		_ to go to the meeti	ng and then report



5.		he mother's		discipline the
		others say it's the f		
6.	It took months to	write the	of t	he United Nations.
		car is \$5,000, and t		
8.	Just	your nan	ne and address. Do	on't say anything else.
9.	We were surprise	ed when the owne	er of the store	that
	he was moving a			
10.		at		
		a skating rink, an		
11.	She didn't have	1	reason for qu	itting the job. She jus
	wasn't very happ	by there.		
12.	Half of the people	le in town voted o	n	day.
Pil				
b	Vocabulary			
	focus on	rapraeantativae	moleco	
	success	representatives settlement	roles	economic ceasefire
	troops	settlement withdrew	evaluate	
1.	One of the UN's		is to supervise	nuclear facilities.
2.	Не	his hand	quickly from the b	ox when he saw a
	snake sitting in t			
3.	It takes luck and	hard work to be a		
4.	In their divorce		_, the humband a	nd wife divided their
	money equally.			
5.	The school's		is to educate child	ren to be curious and
	open-minded.			
6.	It's difficult to		your work when	there is a lot of noise
	in the room.			
7.	In order to give y	ou a grade, your	teacher must	your your
	work.			*
8.	During the confli	ict, the	kept the	e people in the town
	safe.			
9.	Α	was called	after the warring	sides agreed to peace
	talks.			30

he shortage of jobs		
Each state sends tw		
	nization will be focusing on the	_
air and water pollu	tion.	
Vocabularu Bo	January American	
vocabulary Kei	view: Antonyms	
ch the antonyms (wo	rds that are opposite in meaning).	
1. evil	a. fragile	
2. properly	b. uneven	
3. durable	c. hide	
4. entire	d. give in	
5. uniform	e. incorrectly	
6. resist	f. useless	
7. expose	g, good	
7. expose 8. effective	g. good h. part	
8. effective	h. part	
8. effective		
8. effective	h. part	
8. effective	h. part Check: True/False/Not Enough Information	
8. effective  Comprehension  1. The United Nar II.	h. part Check: True/False/Not Enough Information	
8. effective  Comprehension  1. The United Nar II.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World	
8. effective  Comprehension  1. The United Nar II.  2. The General Council.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World	
2. The General Council. 3. The member	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security	
2. The General Council. 3. The member	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change, the responsibility for closing nuclear facilities in	
2. The United No. War II. 2. The General Council. 3. The member 4. The UN has different council.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change, the responsibility for closing nuclear facilities in	ons
2. The United No. War II. 2. The General Council. 3. The member 4. The UN has different council.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change.  the responsibility for closing nuclear facilities in ntries.  rekeeping forces are responsible for holding elections.	ons
2. The United Nowar II. 2. The General Council. 3. The member 4. The UN has different council. 5. The UN peace in different council.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change, the responsibility for closing nuclear facilities in ntries.  The Recepting forces are responsible for holding election outries.  The Volved in many humanitarian activities.	
2. The United Nowar II. 2. The General Council. 3. The member 4. The UN has different council. 5. The UN peace in different council.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change, the responsibility for closing nuclear facilities in ntries.  The Recepting forces are responsible for holding election outries.  The Volved in many humanitarian activities.	
2. The United No. War II. 2. The General Council. 3. The member 4. The UN has different council. 5. The UN peace in different council. 6. The UN is in 7. Every year, the problems.	h. part  Check: True/False/Not Enough Information  Nations was organized at the beginning of World  Assembly has more members than the Security  s of the Security Council never change.  the responsibility for closing nuclear facilities in ntries.  rekeeping forces are responsible for holding election outries.	ter

Unit 2: Organizations

- \_\_\_\_\_ 9. Kuwait is a member of the UN.
- \_\_\_\_\_10. The United Nations helped Algeria become independent.

# e Comprehension Questions

- 1. What is one of the UN's humanitarian activities?
- 2. What are three of the main organizations of the United Nations?
- 3. What is the difference between the General Assembly and the Security Council?
- 4. What is the role of the UN peacekeeping force?
- 5. What does the UN do to end wars?
- 6. What role has the UN played in the fight against smallpox?
- 7. How has the UN been successful?
- 8. How has the UN been unsuccessful?
- 9. Why are there wars even though UN members agree not to fight?
- 10. What do you think people talked about at the UN conference on oceans?

# f

## Reading Strategy: Identifying Main Ideas and Details

In the chart below, identify the main idea in each paragraph. Then summarize the most important details in your own words.

Paragraph	Main idea	Details	
1 (lines 1–6)	People met in 1945 to set up the United Nations.	They were from 50 countries. They wanted to set up an or anization that would bring peace to the world.	
2 (lines 7–16)			
3 (lines 17–28)			
4 (lines 29–45)			
5 (lines 46–51)		40	
6 (lines 52–62)		,	
7 (lines 63–78)			
8 (lines 79–86)			
9 (lines 87–95)			

# Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

Verb	Noun	Adjective	Adverb
delegate	delegate delegation		
state	statement		
maintain	maintenance		
	responsibility	res onsible	responsibly
represent	representative representation		
announce	announcer announcement		
succeed	success	suc essful	successfully
supervise	supervisor supervision	supervisory	
negotiate	negotiator negotiation		
withdraw	withdrawal		

1.	The government sent a	of experts to the meeting.	
2.	The president made a short meeting.	at the end of the	
3.	He studies hard to his	good grades.	
	His parents will let him use their car as lon		
5.	My boss couldn't go to the conference, so I h	nd to	her.
	They the results of the ended.	election 12 hours after it	
7.	The UN hasn't always been	in preventing wars.	
8.	The of the project was problems.		



- 9. The peace \_\_\_\_\_ lasted for several years.
- 10. The troops refused to \_\_\_\_\_

# h

## Grammar Review: Noun Substitutes

In English, we often use a pronoun to replace a noun or noun phrase that has already been used in the sentence or in a previous sentence.

Example: The UN has had some success in its role of world peacemaker. It has negotiated 172 peaceful settlements and helped to end two wars.

Read the following sentences. Each pronoun is in **bold** print. Circle the noun or noun phrase that it replaces.

- The peacekeeping forces have been involved in 56 missions. They have supervised ceasefires and monitored elections.
- 2. UNICEF provides help to children wherever they live.
- In 1980, WHO announced that, after 13 years of work, it had succeeded in ridding the world of smallpox.
- 4. To support its humanitarian efforts, the UN employs thousands of people.
- The UN employs thousands of people. They provide medical services and spread scientific information.
- 6. One conference took place in the 1970s. It was about the uses of oceans.
- Although the UN has had some successes, it has not been able to stop all wars.
- 8. The charter of the UN states the goals of the organization, but it does not say how the UN will meet these goals.



# i

## Sentence Combining

Read the example and the different model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: The General Assembly is made up of representatives from member countries. They discuss important issues related to peace.

Models:

- a. The General Assembly is made up of representatives from member countries who discuss important issues related to peace.
- The General Assembly, which is made up of representatives from member countries, discusses important issues related to peace.
- Representatives of member countries who make up the General Assembly discuss important issues related to peace.
- The Security Council has representative from 15 countries. They have the main responsibility for maintaining peace.

1.				
o				

The UN peacekeeping forces are made up of people from many different countries. They monitor elections and supervise ceasefires.

a	
b.	nes abutaf attentiminte



## Writing

Do you have any ideas about how people in the world could live together more peacefully? Write about your ideas.





# lesson

# **Amnesty International**

2



# 02 Landov LL

## Before You Read

- 1. What do you know about the organization Amnesty International?
- 2. Why are the people in the picture protesting?
- 3. Can you think of anyone who was imprisoned for his or her political or religious beliefs?

## Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- In 1960, two students in Portugal were put jail for seven years. The reason? They had made critical remarks about their government. In England, a lawyer by the name of Peter Benenson read about this incident and decided he had to do something.
- 2. To maintain its **impartiality**, Amnesty International is careful to remain independent of all national governments.
- In 1977, Amnesty International was awarded the Nobel Peace Prize.
- 4. In the 1980s, Amnesty International was able to increase the size of its **staff** and the number of offices worldwide.

# 2 Amnesty International

In 1960, two students in Portugal were <u>sentenced</u> to seven years in <u>prison</u>. The reason? They had made critical <u>remarks</u> about their government. In England, a lawyer by the name of Peter Benenson read about this <u>incident</u> and decided he had to do something.

Benenson wrote a newspaper article called "The Forgotten Prisoners." In it, he told about six people in six different countries who were in prison because of their beliefs. In the newspaper article, Benenson a ked readers to join him in a year-long campaign against the imprisonment of people for their political or religious beliefs. It was Benenson's hope that people would write letters to government officials calling for the release of these prisoners. In the first months of the campaign,

15 people sent thousands of letters demanding the release of the prisoners. By the end of 1961, the campaign had developed into a permanent international organization called Amnesty International, and it was already working on the cases of 210 prisoners.

Amnesty International's primary goal is to obtain the release of "prisoners of conscience." These are people who have been imprisoned for their belies; they have neither used violence themselves nor encouraged anyone else to use violence. Toni Ambatielos, one of the six prisoners of conscience whom Benenson wrom about in 1961, was put in prison for his trade union activities. Another one of the prisoners, Dr. Agostino Neto, was jailed for trying to improve health care in his country.

In the 1960s, many Amnesty members formed small groups to "adopt" a prisoner of conscience. When a group adopted a prisoner of conscience, it concentrated on helping that specific prisoner. Members of the group would regularly write letters to officials in the

given as a punishment

event; happening



35 prisoner's government, and when possible, they would try to help the prisoner's family. Today, there are more than 2,000 adoption groups, each focusing its efforts on two or more prisoners.

As Amnesty International grew, it expanded its
mission to include other victims of human rights abuse.
Today, the organization is working to make sure all prisoners get a fair trial and to end all types of torture.
It is also involved in a major campaign to end the death penalty.

Amnesty International has become an effective organization in large part because of its impartiality and reliability. To maintain its impartiality, Amnesty is careful to remain independent of all national governments. It gets its money from individual

contributions and special events. To maintain its reliability, Amnesty puts much time, effort, and money into getting accurate information about prisoners. Research teams carefully check the facts about human rights abuses. Fact-finding teams interview prisoners,

55 family members, <u>witnesses</u>, and government officials. This information is used to create a profile with the facts about each person's imprisonment.

Amnesty International works to help individual prisoners; it does not try to change the governments

that are holding the prisoners of concience. After some negative publicity in the late 1960s, Amnesty International adopted a rule that members of the organization could not work on cases inside their own country. The organization worried that members

working in their own country would not be able to stay impartial.

In 1977, Amnesty International was awarded the Nobel Peace Prize. In the same year, Steve Biko, an African anti-apartheid activist, was imprisoned for his political activities. While Biko was in prison, he was tortured and eventually murdered for his beliefs. A popular musician named Peter Gabriel wrote a song called "Biko" to protest his murder and to support the work of Amnesty International. Over 25 years later,

cruel treatment

extreme physical

punishment

gifts of money

people who saw something happen and can tell about it

information in the media that creates public interest in something

- 75 when audiences hear the song "Biko," they often tand and join in the singing. In the mid-1980s, Amnest International was helped by a number of other well-known musicians. To help the organization, the musicians gave concerts and contributed their profits to
- Amnesty International. The concerts gave the organization valuable publicity as well as financial support, and it was able to increase the size of its staff and the number of offices worldwide. In 2004, the United States chapter of Amnesty International released
- the Music for Human Rights CD with some of the hottest musicians of the year and offered it for free to new members. The support of popular musicians helped to inform young people and interest them in Amne ty International.
- Amnesty International now has 1.5 million members in 162 countries. It continues to petition for improvements in prisons, the end of torture, and the release of prisoners of conscience. Amnesty members continue to tirelessly write letters and hold benefits,
- os vigils, and fundraisers for prisoners of conscience around the world. And what happened to the significance of conscience whom Benenson wrote about in 1961? All of them eventually gained their freedom.

# **a** Vocabulary

sentenced prison remarks incidents release cases conscience staff torture fair trial penalty

- Not being allowed to sleep is one of the worst forms
   of
- 2. Another word for jail is \_\_\_\_\_\_
- The teacher discovered several \_\_\_\_\_\_ of cheating on the final exam.
- 4. What is a \_\_\_\_\_ punishment for cheating on a test?

employees

	He was				
	company of the	ousands of dol	lars.		
6.	During the mu	rder	, several wif	tnesses told what they	
	had seen.				
7.	When you		a balloon or a kite, it usually goes up in		
	the air.				
8.		en two	in which	people have been	
		g from our offic			
9	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN		t of the organization's		
			·		
	the exam.	**************************************			
11			for paying your tax	xes late?	
	His		othering him because h		
day	and family.	13 0	othering and because i		
	and family.				
b	Vocabular	У			
b	impartial		contributions	accurate	
b	vocabarar,	reliable profile	publicity	award	
	impartial witness murder	reliable profile valuable	publicity staff		
	impartial witness murder	reliable profile valuable	publicity	award	
1.	impartial witness murder I don't take m very	reliable profile valuable y car on long to	publicity staff rips because it isn't	award abuse	
1.	impartial witness murder I don't take m very	reliable profile valuable y car on long to	publicity staff	award abuse	
1.	impartial witness murder I don't take m very Most people v than silver.	reliable profile valuable y car on long to . vould probably	publicity staff rips because it isn't v say that gold is more	award abuse	
1.	impartial witness murder I don't take m very Most people v than silver.	reliable profile valuable y car on long to . vould probably	publicity staff rips because it isn't	award abuse	
1. 2. 3.	impartial witness murder I don't take m very Most people v than silver. Movie compa	reliable profile valuable y car on long tr  vould probably nies spend a lo	publicity stoff rips because it isn't v say that gold is more. t of money on	award abuse	
1. 2. 3.	impartial witness murder I don't take m very Most people v than silver. Movie compa	reliable profile valuable y car on long tr  vould probably nies spend a lo	publicity staff rips because it isn't v say that gold is more	award abuse	
1. 2. 3.	impartial witness murder I don't take m very Most people v than silver. Movie compa	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be	publicity stoff rips because it isn't v say that gold is more. t of money on	award abuse	
1. 2. 3.	impartial witness murder I don't take m very Most people v than silver. Movie compa films. It's difficult for about their ov	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be vn children.	publicity stoff rips because it isn't v say that gold is more t of money on	award abuse	
1. 2. 3.	impartial witness murder I don't take m very Most people v than silver. Movie compa- films. It's difficult for about their ov Everyone who	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be yn children. o is a member o	publicity stoff rips because it isn't v say that gold is more. t of money on	award abuse  for their when they are talking	
1. 2. 3. 4. 5.	impartial witness murder I don't take m very Most people v than silver. Movie compa films. It's difficult fo about their ov Everyone who invited to the	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be vn children. o is a member of party.	publicity st ff rips because it isn't v say that gold is more t of money on	award abuse  for their when they are talking	
1. 2. 3. 4. 5. 6.	impartial witness murder I don't take m very Most people v than silver. Movie compa films. It's difficult fo about their ov Everyone who invited to the	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be vn children. o is a member of party. ent for	publicity st ff rips because it isn't v say that gold is more t of money on v of the company's is harsh.	award abuse  for their when they are talking is	
1. 2. 3. 4. 5. 6. 7.	impartial witness murder I don't take m very Most people v than silver. Movie compa films. It's difficult fo about their ov Everyone who invited to the The punishme	reliable profile valuable y car on long to vould probably nies spend a lo or parents to be vn children. o is a member of party. ent for er gotten an	publicity st ff rips because it isn't v say that gold is more t of money on	award abuse  for their when they are talking  is omething?	

9. It's possible to	som	neone mentally or physically.
10. The newspaper did a	wonderful	of the town, giving
its history and politic		
11. Thousands of people		to help the victims of the
flood.		
12. Everything in the rep	oort was	except the date.
C Vocabulary Revi	ew: Definitions	
Match the words with their	r definitions.	
1. negotiate	a. be noticeable	The second secon
2. withdraw	b. bake at a hig	h temperature
3. stand out	c. make last for	a long time
4. possess	d. take back	
5. fire	e. destroy	
6. preserve	f. copy	
7. combat	g. discuss in or	der to come to an agreement
8. vandalize	h. spread	
	i. fight	
	j. own	
100		
d Comprehension	n Check: Multiple	Choice
Circle the letter of the bes	t answer.	
1. Peter Benenson wa	s a in Engla	nd.
<ul> <li>a. newspaper repo</li> </ul>	rter	
b. lawyer		
c. student	- la alas	
<ol> <li>Benenson wanted to a. prisoners of con</li> </ol>	science	
b. forgotten prison	ers	
c. all prisoners		

3.	Dr. Agostino Neto is an example of a
	a. member of Amnesty International
	b. prisoner of conscience
-	c. trade union member
4.	Amnesty International is against
	a. fair trials
	b. impartiality
m.	c. the death penalty
5.	Amnesty International spends a lot of time and money to
	a. get accurate information about prisoners
	b. attract new members to the organization c. fight against negative publicity
6	
0.	Members of Amnesty International cannot work on cases  a. with other members
	b. that get a lot of publicity
	c. inside their own country
7.	Staying independent of all national governments helps Amnesty
	International to be
	a. impartial
	b. flexible
	c. focused
8.	Amnesty International has been around since
	a. 1977
	b. 1969
	c. 1961
0	
e	Comprehension Questions
1.	How did Amnesty International get started?
2.	What inspired Peter Benenson to start Amnesty International?
3.	Why does letter writing sometimes work to get the release of a prisoner?
	What is a prisoner of conscience?
	What do Toni Ambatielos and Dr. Neto have in common?
	How does Amnesty International stay impartial?
	Why is Amnesty International thought to be a reliable organization?
	Why can't members work on cases in their own countries? Who was Steve Biko?
	How did Peter Gabriel help Amnesty International?
10.	Tion da rece Cabiternet runnesty in thattorial



#### Reading Strategy: Taking Notes in a Chart

Before you write a summary of a reading, it can help to make a chart of categories of information.

Complete the chart below with information about Amnusty International.

#### AMNESTY INTERNATIONAL

Goals	Actions/activities	Successes
	in a think config	

### g

#### Vocabulary Expansion: Prefixes

The prefixes *un-*, *im-*, *dis-*, *in-*, and *non-* can be put at the beginning of some words to add the meaning "not" to the word.

Choose the correct word from the pair to complete the sontence.

1. partial, impartial	6. fairly, anfairly
2. reliable, unreliable	7. effective, ineffective
3. accurate, inaccurate	8. concerned, unconcerned
4. successful, unsuccessful	9. approved, disapproved
5. supervised, unsupervised	10. original, unoriginal
<ol> <li>I like all types of ice cream, but chocolate.</li> </ol>	t I'm really to
2. He lost his job because he was	so
3. The date on the message is	
not June 10.	**
4. I think she has been	because she doesn't try very
hard.	
5. Young children shouldn't be le	ft at home
6. They won the game	: no one cheated.

	derstand why they are so	about the air
	in their area.  of the government's	action, but there was
nothing tl	hey could do about it.	
<ol><li>She wrote like it.</li></ol>	e a very story. I'v	e never read anything
IIIC II.		
h Gramr	mar Review: Prepositions	
Write the miss	ing prepositions on the lines.	
	vo students (1) Portugal were	
(2) pr	ison. The reason? They had made criti	ical remarks (3)
their governn	nent. In England, a lawyer by the nam	e of Peter Benenson read
(4) th	is incident and decided he had to do s	omething. Benenson wrote
a newspaper	article called "The Forgotten Prisoner	s." In it, he told about six
	six different countries who were	
	eir beliefs. In the newspaper art le, Be	
join him (8) _	a year-long campaign (9)	_ the imprisonment of
	their political or religious belief	
	would write letters to government offic	
	these prisoners. In the first months of	
thousand	ls of letters demanding the release (12)	the prisoners. By the
end (13) .	1961, the campaign had develo	oped (14) a permanent
internatio	onal organization called Amnesty Inter	rnational, and it was already
	on the cases (15) 210 pri oners	

7. If the medicine is \_\_\_\_\_\_, you'll get better soon.

## i

#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: Amnesty International wants to maintain its impartiality. To do this, it remains independent of all governments.

1. Amnesty International wants to maintain its reliability. To do this, it

Models:

- To remain impartial, Amnesty International remains independent of all governments.
- Amnesty International maintains its impartiality by remaining independent of all governments.
- c. Amnesty International remains independent of all governments in order to maintain its impartiality.

spends a lot of time and money getting accurate in	formation.
a	
b	
с	
Amnesty International wants to gain the release of	prisoners of conscience.
To do this, it starts letter-writing campaigns.	
a	
b	



#### Writing

Have you ever written a letter because you wanted to change something? Write a letter to the director of your school about something you would like to change about your school. When you finish, share your letter with a classmate.



lesson

## UNICEF



ORANIPeter Arnold, Inc.

#### Before You Read

- 1. What do you know about UNICEF?-
- 2. How does UNICEF help children?
- 3. What kinds of help do you think children in the world need?



#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- The acronym UNICEF means United Nations International Children's Emergency Fund.
- UNICEF was created by the United Nations in 1946 to provide temporary help to children. In 1950, UNICEF's responsibilities were expanded to providing long-term help to children and mothers in all developing countries.
- Among UNICEF's successes are the eradication of smallpox and the near eradication of polio.
- 4. Globally, there are now 42 million people with HIV/AIDS.
- In cases of natural disasters, such as floods and earthquakes, UNICEF is able to respond quickly to people's needs, especially the needs of children.

The acronym UNICEF stands for United Nations International Children's Emergency Fund. This organization was created by the United Nations in 1946 to provide emergency help to children in post-war

- 5 Europe and China. In 1950, UNIC F's responsibilities were expanded to providing long term help to children and mothers in all developing countries. Three years later, UNICEF became a permanent part of the United Nations system, and its name was changed to United
- Nations Children's Fund. Despite the name change, the acronym UNICEF was kept, and today most people know of the organization by its acronym rather than its name.

UNICEF works with the governments of individual countries to provide three kinds of services. It plans and develops programs, trains people to work in these programs, and provides the supplies and equipment to help the programs function. The programs that UNICEF develops cover five main areas: in munization,

20 education for girls, child protection, early childhood development, and HIV/AIDS.

In the area of immunization, UNICEF has had many successes, but it still has much work to do. Among its successes are the **eradication** of smallpox, the near eradication of polio, and a **sharp** decrease in the numbers of deaths from measles and tetanus. However, there are still countries that do not provide routine immunization, and in these countries diseases such as measles, diphtheria, whooping cough, tuberculosis, and tetanus **persist**. According to UNICEF, more than 2 million children die each year from diseases that could have been prevented by inexpensive vaccines.

A second goal of UNICEF is giving children the best possible start in life. In fact, more than half of UNICEF's **budget** is used to help children in their first years of life by providing them with better health care, nutrition,

sudden

a plan to spend money or resources water, sanitation, and education. But the needs of young children around the world are <u>overwhelming</u>
According to UNICEF, "out of 100 children born in a year, 30 will most likely suffer from malnutri on in their first five years of life, 26 will not be immunized against the basic childhood diseases, 19 will lock <u>access</u> to safe drinking water and 40 to <u>adequate</u> san tation, and 17 will never go to school." Each year, those problems cause the death of 11 million children under the age of 5. That means each day 30,000 children die

5 problems cause the death of 11 million children under the age of 5. That means each day 30,000 children die, and most of these deaths could be prevented

One of the biggest challenges facing UNICEF today is HIV/AIDS. Globally, there are now 42 million people with HIV/AIDS; more than 3 million of them are children under the age of 15, and 12 million are young people between the ages of 15 and 24. One of the primary reasons for the increase in the number of HIV/AIDS cases is ignorance about how the disease is spread. Surveys done in 60 countries have released that the majority of young people do not understand how HIV/AIDS is transmitted from one person to another. To change this, UNICEF focuses much of its attention on educating young people about the disease. In addition to its educational programs, UNICEF is also involved in taking care of people with the disease and protecting them from discrimination.

While much of UNICEF's work is now in long-term projects, it still plays a <u>vital</u> role in emergency

situations. In cases of natural disasters, such as floods and earthquakes, UNICEF is able to respond quickly to people's needs, especially the needs of children. For example, when monsoon rains caused rivers in Bangladesh to flood in 2004, millions of people were

affected. The floods <u>contaminated</u> drinking water supplies, quickly spreading disease. UNICEF was able to move in quickly with medical supplies and equipment to set up sanitation systems. The organization's rapid response to disaster prevented the deaths of many children. Again, when a tsun mi hit countries in southeast Asia in 2004, UNICEF was able to

upsetting; overpowering

the ability to get not bad, but not very good; minimal

very important

made unsafe or dirty



rush relief assistance to the area to help the survivors. In addition to providing safe drinking water in order to prevent the spread of disease, UNICEI was involved in helping thousands of children who we e separated from or lost their parents when the tsunaminit, as well as many more who were traumatized by the event.

shocked emotionally

How does UNICEF pay for all this. Three-fourths of the organization's money comes from the contributions of governments. The remaining one-fourth comes from individual contributions, the sale of UNICEF's greeting cards and products, and special events held to collect money for the organization. For example, in 2004, a chef in London decided he had to do something to help the victims of the tsunami. He organized an event called UNICHEF, in which more than 150 resourants joined together to raise money for UNICEF's sunami Children's Emergency Appeal. Restaurants

participating in the UNICHEF event donated a large part of their earnings. With the help of people and organizations like that, UNICEF will be able to continue helping children around the world.

#### **a** Vocabulary

acronym stand for emergency expands sharp eradicate outine global budget overwhelming malnutrition access 1. Do you know what the stars on the U.S. flag \_ 2. What number would you call in an \_ 3. The expression UNESCO is an . for United Nations Economic and Social Council. 4. If you feel a \_\_\_ pain in our chest, you should probably go to the hospital right away. 5. If UNICEF can. \_\_ polic no one will ever get the disease again.

6.	The number of st	ars in the sky is		I can't believe how	
	many there are.				
7.	Only a few peopl	e have	to the p	to the president's office.	
8.			re a	so that they	
	won't spend more				
9.	When a company	or business	, it	has to increase the	
	size of its staff.				
10.	When an activity	becomes	, you	don't think about it	
anymore. You just do it.					
11.		is a problem wh	nerever people la	ck healthy food.	
b	Vocabulary				
	adequate	global	imporant	enmoved	
	transmit	discriminate	vital	disaster	
	contaminated	traumatize	donated	persistent	
1.	It's against the lav	v to	against so	meone because of	
	his or her race, rel	igion, age, or gende	er.		
2.	If you drink	wa	ter, you can get v	ery sick.	
		ing terrible happen			
4.	Access to clean w	ater is	-		
		not have access to		sanitation.	
		thquake, another			
7.	7. To find out what young people are interested in, we				
	more than 500 peo	ople.			
8.	You can	an e-ma	ail message from	the United States to	
	China in seconds.				
9.	HIV/AIDS is a _		problem		
10.	A	person keeps	trying. He or she	doesn't give up	
	easily.				
11.	Many people	fo	od and clothes to	help the victims of	
	the fire.				
12.	If you can't get ac	cess to the facts, you	ı will remain		

## C Vocabulary Review: Synonyms

atch the synonyms.	
1, torture	a. dependable
2. remarked	b. representative
3. reliable	c. primarily
4. mainly	d. donate
5. delegate	e. abuse
6. immunization	f. bold
7. impartial	g. fair
8. contribute	h. incident
	i. vaccination
	j. said
<ul><li>UNICEF became a pern</li><li>a. 1946</li><li>b. 1950</li><li>c. 1953</li></ul>	nanent part of the UN system in
UNICEF has always be	en a organization.
a. temporary	
b. permanent	
c. UN	
UNICEF does <i>not</i> focus a. disease prevention	
a. disease prevention	on
	on
b. peace negotiations c. immunization	on
b. peace negotiations c. immunization	
b. peace negotiations c. immunization	
<ul><li>b. peace negotiations</li><li>c. immunization</li><li>UNICEF is still working</li><li>a. measles</li><li>b. smallpox</li></ul>	
<ul><li>b. peace negotiations</li><li>c. immunization</li><li>UNICEF is still working</li><li>a. measles</li></ul>	



- When drinking water gets \_\_\_\_\_\_, disease on spread quickly.

   traumatized
   contaminated
   transmitted

   More children lack \_\_\_\_\_\_ than access to safe drinking water.

   adequate sanitation
   adequate education
   adequate health care
- More than 3 million children under the age of 15 have \_\_\_\_\_\_.
   a. smallpox
  - b. measles
  - c. HIV/AIDS
- To stop the spread of HIV/AIDS among young people, UNICEF needs to provide \_\_\_\_\_\_.
  - a. education about the disease
  - b. safe drinking water
  - c. routine immunization

#### e Comprehension Questions

- 1. How has UNICEF changed over the years?
- 2. What three services does UNICEF provide to the governments of individual countries?
- 3. What are UNICEF's five main programs?
- 4. How has UNICEF been successful in the area of immunization?
- 5. In which area does UNICEF spend the largest part of its budget?
- 6. What are the goals of UNICEF's early childhood programs?
- 7. How many children are there with HIV/AIDS?
- 8. Why are people with HIV/AIDS discriminated against?
- 9. What are three kinds of disasters?
- 10. What can individuals do to help UNICEF in its work for children?



f	Reading Strategy:	Using a	Dictiona
	0 0/	0	CONTRACTOR CONTRACTOR

Use a dictionary to find the definition of each acromym below.

- 2. NAFTA
- 3. UN \_\_\_\_

## Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

	Verb	Noun	Adjective	Adverb
1.	expand	expanse expansion	exp insive	expansively
2.	eradicate	eradication		
3.	persist	persistence	per istent	persistently
4.	transmit	transmission		
5.	discriminate	discrimination	discriminatory	
6.	contaminate	contamination		
7.	traumatize	trauma	traumatic	traumatically
8.	donate	donation		
9.	ignore	ignorance	ignorant	ignorantly
0.	access	access	acc ssible	

- 1. They \_\_\_\_\_\_ their house by adding a third floor.
- It's difficult to \_\_\_\_\_ certain kinds of weeds.
   If you are \_\_\_\_\_, you will eventually get a job.
- of radio signals was interrupted by the bad 4. The \_ weather.
- 5. In the 1950s, many laws were \_

6.	of drinking v	vater can cause the death of thousands
	of people.	
	The destruction of the town was a everyone.	
	others give their time.	money to Amnesty International, while
9.	If you are of	something, you can't change it.
	Today, public buildings must be _ wheelchairs.	
h	Grammar Review: Articles	
Wr	ite an article in each blank if one is nee	eded.
	(1) acronym UNICEF stand	ds for (2) United Nations
(3)	ernational Children's Emergency F	fund. This organization was created by provide emergency help to children in
		viding long-term help to (6)
		g countries. Three years later, UNICEF
		(8) United Nations system, and
		United Nations Children's Fund. Despite
		acronym UNICEF was kept, and today
		anization by its acronym rather than its
na	me.	



#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: UNICEF has had many successes. However, it still has much work to do.

Models: a. Although UNICEF has had nony successes, it still has much

- work to do.

  b. UNICEF has had many successes, but it still has much work to
- c. Despite having had many successes, UNICEF still has much work to do.
- UNICEF spends most of its time on long-term projects. However, it still provides emergency help.

a	
o	

2. UNICEF spends about half of its budget on care for young children. However, many children still die every vear.

## i

#### Writing

Think back to the chef in London who held an event called UNICHEF to raise money for UNICEF. Think of an event you could hold to raise money for UNICEF, using your special skills and talents. Write a description of the event, and then tell your classmates about it

#### lesson

## The Olympic Movement





## Company of the con-

#### Before You Read

- 1. What is your opinion of the Olympic Games?
- 2. Who is responsible for organizing the Olympic Games?
- 3. What do you think the goal of the "Olympic Movement" is?

#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- The Olympic Charter guides all decisions made about the Olympic Games.
- The judges for Olympic events come from different countries. They often have very different opinions about the quality of an athlete's performance.
- Members of a team usually have a sense of solidarity because they are working toward the same goal.
- One goal of the Olympic Movement is to make people more aware of environmental problems.
- You can ponder the problems for a while, but eventually you need to do something.



## 4 The Olympic Movement



The Olympic Movement <u>encompasses</u> organizations, athletes, and other persons who agree to be **guided** by the Olympic Charter.

includes

#### 5 Who Belongs to the Olympic Movement?

The Olympic Movement groups together all those who agree to be guided by the Olympic Charter and who recognize the authority of the International Olympic Committee (IOC)—namely, the International Federations (IFs) of sports on the program of the Olympic Games, the National Olympic Committees (NOCs), the Organizing Committees of the Olympic Games (OCOGs), athletes, judges and referes, associations and clubs, as well as all the organizations

experts who give official opinions in a competition

15 and institutions recognized by the IOC.

#### Birth of the Olympic Movement

When he announced in Paris, on a winter's evening in 1892, the **forthcoming** re-establishment of the Olympic Games, Pierre de Coubertin was **applauded**, but nobody at the time imagined the scale of the project **entailed** in reviving the ancient Olympic Games, **appointing** a committee in charge of organizing them, and creating an international movement. The IOC was created on June 23, 1894; the first Olympic Games of the modern era opened in Athens on April 6, 1896; and the Olympic Movement has not stopped growing ever since.

about to take place

Olympism is a **state of mind** based on equality of sports which are international and **democratic**. It is a **philosophy** of life, **exalting** and combining in a balanced whole the qualities of body, will, and mind,

system of values by which a person lives praising highly

#### Goals of the Olympic Movement

The goal of the Olympic Movement is to contribute
to building a peaceful and better world by educating
youth through sport practiced without discrimination of
any kind, in a spirit of friendship, solidarity and fair

feeling or state of togetherness



play. The Olympic Movement is defined also by the numerous activities in which it engages such as

- Promoting sport and competitions through the intermediary of national and international sports institutions worldwide.
  - <u>Cooperation</u> with public and private organizations to place sport at the service of mankind

Assistance to develop "Sport for All.

- Advancement of women in sport at all levels and in all structures, with a view to <u>achieving</u> equality between men and women.
- Opposition to all forms of commercial exploitation of sport and athletes.

· The fight against doping.

- Promoting sports ethics and fair play
- · Raising awareness of environmental problems.
- Financial and educational support for developing countries through the IOC Institution Olympic Solidarity.

"All sports for all people. This is surely a phrase that people will consider foolishly <u>utopian</u>. That prospect troubles me not at all. I have <u>pondered</u> and studied it at length, and know that it is correct and <u>possible</u>," wrote Pierre de Coubertin in 1919. The future proved him right.

From http://www.olympic.org/uk/organisation/murement/index\_uk.asp. Reprinted with permission from the International Olympic Committee.

the act of working together

reaching; arriving at

unfair use

idealistic; wonderful but impossible





## **a** Vocabulary

	encompasses referees	forthcoming	authority	entail
	state of mind	democratic	philosophy	exalted
1.	What does becom	ing a doctor	?	
2.	A delicious meal	with friends alw	ays puts me in a	
	good			
	enter into combat	+	ot have the	
4.	My history book		the 18th and 19	th centuries only.
			im peace of mind.	
6.	My cousin	h	igh school bask tba	ll games.
7.	In a	country	, representatives are	elected.
	piano competitio	n.	nusician to	
9.	Dogs can be train	ed to	people w	vho cannot see.
10.	It was a great cor several minutes.	icert, and at the	end people	for
11.	The coach	tl	ne winning runner,	saying that she was
	the best athlete h	e had ever seen.		
12.	The author's last	book was about	cave painting, but l	nis
		book will be	about ceramics	
b	Vocabulary			
	solidarity exploit pondered	ethical	intermediary aware appoints	etopian
1.	Employers		their employees wh	en they refuse to pay
	them what they			
2	The president		his cabinet numb	pers. They are not

elected.

3.		when they all refused to
4.	work for a day.  A world without wars and drea	d environmental problems is a
5.		s an when two countries
6.	I the	results of the study, but I couldn't explain them.
7.	He didn't	me with my new haircut.
8.	The committee members in anythmembers in anyth	met for several hours, but they didn't hing.
9.		, we can get the job done quickly.
10.	Some organizations	in only humanitarian activities.
11.	Do you think it'ssick?	to take a sick day when you aren't
12.	Most people are world, but they don't war	of the humanitarian crises in the at to think about them.

Circle the word that doesn't fit in each group.

- 1. traumatize, identify, torture, abuse
- 2. award, eradicate, get rid of, eliminate
- 3. trial, judge, emergency, witness
- 4. donate, contribute, give, expand
- 5. global, forthcoming, international, worldwide

Vocabulary Review: Odd One Out

- 6. cooperation, malnutrition, contamination, discrimination
- 7. reliable, impartial, responsible, ignorant
- 8. incredible, arrogant, vast, extraordinary





1.	The IOC encompasses the International Federations and the
	National Olympic Committees.
2.	Athletes are part of the Olympic Movement.
3.	The ancient Olympic Games were revived in the 19th century.
4.	The IOC was created to organize the modern Olympic Games.
5.	The Olympic Movement's goal is to provide better sports programs for young people.
6.	Both public and private organizations are involved in the Olympic Movement.
7.	The Olympic Movement supports the commercial exploitation of athletes.
8.	Pierre de Coubertin believed that the goals of the Olympic
	Movement were impossible to achieve.

- **e** Comprehension Questions
- 1. Who belongs to the Olympic Movement?
- 2. What are the NOCs?
- 3. Who was Pierre de Coubertin?
- 4. When did the first modern Olympic Games take place?
- 5. What role did the IOC play in the first Olympic Games?
- 6. Do you agree that Olympism is a state of mind? Why or why not?
- 7. What is the main goal of the Olympic Movement and how does it plan to reach this goal?
- 8. What do you think "All sports for all people" means?
- 9. What is the Olympic Movement opposed to?





#### Reading Strategy: Inference

What can you infer from the sentences below Check ( ) the possible inferences. 1. The Olympic Movement encompasses organizations, athletes, and other persons who agree to be guided by the Olympic Charter. The Olympic Movement is large. You don't have to be an athlete to be part of the Olympic Movement. The Olympic Movement is very old. ☐ It's expensive to be part of the Olympic Movement. 2. Olympism is a state of mind based on equality of sports which are international and democratic. Olympism is something new. Olympism is something you can do. Olympism does not approve of discrimination. Olympism is about the way you think. 3. When he announced in Paris, on a win or's evening in 1892, the forthcoming re-establishment of the Olympic Games, Pierre de Coubertin was applauded, but nobody at the time imagined the scale of the project entailed in reviving the ancient Olympic Games. People approved of Coubertin's idea of bringing back the Olympic Games. Coubertin established the first Olympic Games. Bringing back the Olympic Games was an enormous job.

People knew how much work it would take to bring the Olympic

Games back, but they wanted to do It anyway.



#### Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

	Verb	Noun	Adjective	Adverb
1.	guide	guide guidance		
2.	cooperate	cooperation	cooperative	cooperatively
3.	recognize	recognition	recognizable	
4.	exploit	exploitation	exploitable	
5.	applaud	applause		
6.	authorize	authority	authoriative	authoritatively
7.		ethics	ethical	ethically
8.	appoint	appointment		

- - outside.
- 3. With a wig on, she wasn't \_\_\_\_\_\_ 4. \_\_\_\_\_ of workers is unethical
- 5. There was loud \_\_\_\_\_ at the end of the performance, and people continued to \_\_\_\_\_ for several minutes.
- 6. Who \_\_\_\_\_ closing down the road?
- 7. He had \_\_\_\_\_ reasons for quitting his job.
- 8. Her \_\_\_\_\_\_ as the new vice president will be forthcoming.

## h

#### Grammar Review: Verb Tenses

Complete the sentences with the correct form and tense of the verb in parentheses.

- 2. The Olympic Movement \_\_\_\_\_ growing since 1896. (not stop)
- 3. Public and private organizations \_\_\_\_\_\_\_ to make the Olympic Games happen. (cooperate)
- 4. The Olympic Movement \_\_\_\_\_ all forms of commercial exploitation of sport. (oppose)
- 5. Pierre de Coubertin believed that it \_\_\_\_\_\_ possible for all sports to be for all people. (be)
- 6. In the 1890s, no one \_\_\_\_\_\_ how much work would be involved in re-establishing the Olympic Games. (recognize)
- 7. In June 1894, the IOC \_\_\_\_\_\_\_ (create)
- 8. The Olympic Charter \_\_\_\_\_\_everyone involved in the Olympic Movement. (encompass)





## i

#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

- Example: Olympism is a philosophy of life. It exalts and combines the qualities of body, will, and mind.
- Models: a. Olympism is a philosophy of life, exalting and combining the qualities of body, will, and mind.
  - Olympism, which is a philosophy of life, exalts and combines the qualities of body, will, and mind.
  - c. Olympism is a philosophy of life that enalts and combines the qualities of body, will, and mind.
- The IOC is an important part of the Olympic Movement. It chooses the site of the Olympic Games.

1			
o			

2. The Olympic Movement is involved in many activities. It promotes sports and raises awareness of environmental problems

a	
b	

С. \_\_\_\_\_



#### Writing

Write a description of your favorite Olympic event, but do not write the name of the event. Then ask another student to read your description and guess the event.



## Video Highlights

#### a Before You Watch

- Think back to the lessons on the United Nations and UNICEF, and answer the questions.
  - a. Why was the UN formed?
  - b. Why was UNICEF formed
  - c. How do you think the UN Children's Forum might be related to these two organizations?
- 2. The words below are from this unit. Can you remember what they mean?

issues	accurate	representatives	responsibility
global	focus	pecific	vital
awareness	delegates	recognize	population

#### **b** As You Watch

- 1. Five of the words above are used in the video. Circle the words that you think will be used. Then watch the video to see how these words are used. What is the context?
- Watch the video again. Take notes, and answer the questions below.

a. Why did the UN decide to hold a children's forum?

- b. Who can participate? How
- c. Where can you go to find more information?



C	After	You	Watch
Sec. il	111111	100	PACCECTO

1. Imagine you are 17 years old and have been invi-	ed to be a delegate to the
UN Children's Forum. What issues would you for	
three issues.	

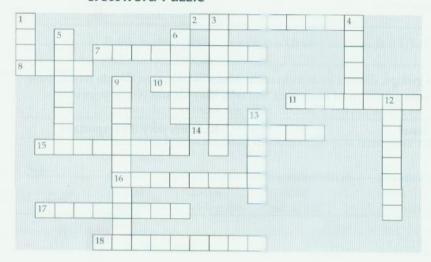
2. In groups, discuss your individual issues. As a group, decide which three issues are the most important and why they should be top priorities.

Issue	Reasons why it's important

3. Present your group's issues to the class, using the vocabulary in the list. Take a vote of the class to determine what the top issues are.

## **Activity Page**

#### Crossword Puzzle



#### Across

- You look so different with contact lenses that I almost didn't \_\_\_\_\_\_\_ you.
- Tsunamis, earthquakes, floods, and tornadoes are natural
- 8. job or position
- We should allow some extra money for transportation in this month's \_\_\_\_\_\_.
- 11. chosen by the people
- The \_\_\_\_\_ FBI stands for Federal Bureau of Investigation.
- Murder can carry a \_\_\_\_\_ of life in prison.
- 16. correct
- 17. detailed, explicit
- 18. the opposite of knowledge

#### Down

- One of the major goals of
   Amnesty International is to
   ensure that prisoners receive a
   trial.
- The acronym UNICEF stands for United Nations International Children's \_\_\_\_\_ Fund.
- 4. beliefs about right and wrong
- 5. worth a lot
- The UN has organized committees to address a variety of global \_\_\_\_\_\_\_.
- 9. working together
- 12. having to do with money
- to think long and hard about something very serious



## **Dictionary Page**

#### **Understanding Acronyms**

An acronym is an expression formed from the first letters of other words.

 Use your dictionary to find the full name for each of the acronyms in the chart and what the organization does.

Acronym	Full name	What it does
FBI	Federal Bureau of Investigation	nvestigates national crimes
CIA		
NAACP		
NASA		
IRS		
NOW		
UN		
EU		
NASDAQ		
YMCA		
NATO		

2. Complete the chart with acronyms from above

Government organizations	Nongovernment organizations
FBI	,
	* %

## **Places**

unit 3

The place honors not the man; it is the man who honors the place.

—Hebrew proverb



#### lesson

# 1

## Hawaii



© formas del amo/Alamy

#### Before You Read

- 1. Have you ever been to Hawaii?
- 2. What are three facts you know about Hawaii?
- 3. What would you expect to find on these islands?



#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- Many years ago, the island of Kahoolawe was covered with vegetation; today there is nothing growing on it.
- European settlers brought grazing animals to the Island. When the animals finished eating all of the vegetation, nothing remained to protect the soil from the wind.
- Many of the people on the island suffered from Hansen's disease, formerly known as leprosy.
- 4. In the 1820s, **missionaries** from the United States arrived to teach the Hawaiian people about Christianity.

### 1 Hawaii

0

If you travel 3,700 kilometers southwest from Los Angeles across the Pacific Ocean, you will reach the islands of Hawaii, the 50th state of the United States. This group of islands has a land area of only 16, 00 square kilometers, stretched over 2,500 kilometers of ocean. The eight main Hawaiian Islands are Niilau, Lanai, Kauai, Maui, Oahu, Molokai, Kahoolawe, and the Big Island of Hawaii.

Not all of the Hawaiian Islands are popular tourist
spots. In fact, one of them is uninhabitable and offlimits to tourists. That's the island of Kahoolawe, the
smallest of the Hawaiian Islands. Many years ago, this
island was covered with vegetation; today it is burren
and inhospitable. The blame for this goes first

15 European settlers who brought grazing animals to the island. When the animals finished eating all of the vegetation, nothing remained to protect the soil from without life responsibility for something bad



the Pacific winds. It's possible that as much as 2 million metric tons of soil gets blown off the land each year.

Kahoolawe was also used as a target by the U.S. Navy, and today there are still enough unexploded shells on the ground to discourage even the most foolhardy tourist. At present, the island is being restored, and scientists hope that someday Kahoolawe will be the beautiful place it once was.

A second rarely visited part of Hawaii is the island of Niihau, which is known as "The Forbidden Island." This privately owned island has fewer than 250 inhabitants, and you need an invitation from one of them to be allowed onto the island. The owner of Niihau raises cattle on his secluded ranch, and many of the people on the island work for him. People say that there is no electricity on the island and that the inhabitants have chosen to live in the traditional way in order to preserve traditional Hawaiian culture.

The remaining six Hawaiian Islands are open to tourists, though three of them attract for fewer tourists than the others. Molokai is home to more native Hawaiians than any other island. This island boasts the highest sea cliffs in the world and a wildlife park with rare animals from Africa and India. For many years, Molokai was one of the most beautiful "prisons" in the world. From 1865 to 1969, more than 8,000 people were sent to this island. But the only crime these people had committed was to suffer from Hansen's disease

(formerly known as leprosy). Until a treatment for the disease was discovered in the late 1940s, anyone suspected of carrying the disease was sent to live in isolation on Molokai. Molokai is also home to the Kalokeoli Fishpond, which is an example of the

Salokeoli Fishpond, which is an example of the sophisticated aquaculture used on the Island at least 700 years ago.

South of Molokai lies the island of Lanai. Lanai is a relatively dry island because the mountains on Molokai block the rain clouds from reaching the island. That doesn't mean Lanai is barren and infertile. Today, one-fifth of all Hawaiian pineapples come from this

hidden

a bad thing;

104



island. The island of Kauai has the honor of being one of the wettest places on Earth, with an average of 1,240 60 centimeters of rain per year.

The remaining three islands, Oahu, Maui, and Hawaii, are all popular destinations for tourists. With its wonderful surfing, beaches, and golf courses, Oahu draws the most tourists of all. Oahu also has the only 65 royal palace in the United States and the largest wind generator in the world. The island of Maui draws visitors who want to see the world's largest inactive volcano, while the most daring tourists travel to the island of Hawaii, which has the world's most active 70 volcano. Hawaii is also the largest island in the group. In fact, Hawaii is twice the size of the other seven islands combined. Hawaii also produces some of the world's best coffee and macadamia nuts and one third of the world's supply of pineapples.

Of all the states in the United States, Hawaii has perhaps the most ethnically diverse population, and that may be a result of the way in which the islands were settled. The first people to make their home on the Hawaiian Islands sailed there from other Pacific slands 80 between the years 300 and 600. Much later, the English explorer and mapmaker Captain James Cook sailed to the Hawaiian Islands. In 1778, Cook put the islands on his maps, and before long whaling ships were stopping there for supplies. In the 1820s, missionaries from the 85 United States arrived to teach the Hawaiian people about Christianity. Some of the missionaries settled there permanently and started farms to grow sugar and, later, pineapples. As the farms grew and more farm

workers were needed, the farm owners brought in 90 workers from other countries. In 1852, workers arrived from China, followed by an influx of Japanese workers \* arrival of a large in 1868 and workers from the Philippines in 1906 Later, people from Korea, Portugal, and Puerto Rico came to work on the farms. Over time, people from the different

95 ethnic groups intermarried, handing down a rich mix of cultures to their children and grandchildren. For example, a Hawaiian child might have a Chinese

attracts

varied

number of people



Hawaiian mother and a Portugues -Filipino father. Today, about 1.2 million people live in Hawaii, but 100 only 10,000 are native Hawaiians.

Hawaii is known as the Aloha State. *Aloha* means "hello," "good-bye," and "I love you" in Hawaiian. It's a word the average tourist is likely to say many times while visiting the Hawaiian Island.

a	Vocabul	arv

	tourists		uninhabitable				
	vegetation		formerly				
	graze	discouraging	foolhardy	target			
1.	. When gold was first discovered in California, there was an						
	of people who hoped to find some gold for						
	themselves.						
2.	Every city has	s attractions for	that the local people				
	rarely visit.						
3.	Nothing can grow on thatland.						
4.	The moon is	he moon is because it doesn't have oxygen.					
5.	They got for committing the crime even though they						
	didn't do it.						
6.	Only a	pers	on would do someth	ning so dangerous.			
7.	. Many religions send out to teach other people the						
	beliefs.						
8.	We hope to finish our work by the 15th of the month. That's our						
	date.						
9.	It's	to never succeed at anything.					
10.	The Hawaiiar	ı İslands were	called the Sandwich				
	Islands.		1				
11.	You need a lot of land if you are going to let your horses						
	outdoors.						
12.	During the w	inter the land is bar	e, but in the summe	r thick			

\_\_\_\_ covers the ground.



b	Vocabulary	house I will					
	secluded	native	boast	off-limits			
	crime	commit	inhospitable	suspect			
	infertile	draws	ethnic	diverse			
1.	Vandalism is a _		in most places				
2.	What is the wor	nat is the worst crime a person can?					
3.	The president's office isto most people.						
4.	You cannot grow anything from seeds.						
5.	What plants are to your area?						
	Young children like to that they are very strong or very smart.						
7.		, the excessive ra	ain in Kauai <mark>ma</mark> ke	s it an			
8.	You won't get a lot of visitors if you live in a very area.						
9.	There are a lot of restaurants on Oahu, so you can try						
	foods from man	y different cultur	res.				
10.	I that these pineapples are from Hawaii, but I'm not						
	certain.						
11.	The people in my class were frombackgrounds.						
12.	The great weath	er	a lot of tou	rists to Hawaii.			
C	Vocabulary	Review: Definit	tions				
Ma	tch the words with	their definitions.					
	1. ponder	a. say					
	2. forthcom	ing b. do sor	mething unfair				
	3. remark	c. get ric	l of				
	4. eradicate	d. direct	someone or some	thing			
	5. cheat	e. take a	dvantage of	,			
	6. malnutri	tion f. donat	e something	*			
	7. guide	g. think	about				
	8. exploit	h. give n	noney to				
		i. a conc	dition resulting fro	om a lack of good food			
		j. soon t	o arrive				

# Comprehension Check: True/False/Not Enough Information 1. Hawaii became the 50th state in the United States in 1959. 2. All of the main Hawaiian Islands are off-limits to tourists. 3. The island of Niihau was used for target practice by the U.S. Navy. 4. It's dangerous to walk on the island of Kahoolawe. 5. You need special permission to visit the island of Oahu. 6. The island of Molokai is now a settlement for people with Hansen's disease. 7. Kauai gets more rain than most places on Earth. 8. The island that attracts the most jourists is Oahu. 9. Early inhabitants of Molokai were very inventive. 10. Missionaries came to the Hawaiian Islands from all parts of the world.

# e Comprehension Questions

- 1. Where are the Hawaiian Islands?
- 2. Why is the island of Kahoolawe barren and inhospitable?
- 3. How is Niihau different from the other main islands?
- 4. If you wanted to see an active volcano, which island would you visit?
- 5. Why does Lanai get so little rain?
- 6. What role did Captain Cook play in the history of Hawaii?
- 7. Why is the population of Hawaii so ethnically diverse?
- 8. Which island is the most interesting to you and why?



# Reading Strategy: Making a Timeline

Timelines are charts showing when important events or activities took place.

This timeline shows the years of several important events in the history of Hawaii. Look at the reading again to find the event that happened each year. Then write the event next to the year.





### Vocabulary Expansion: Suffixes

You can add a suffix to some verbs to make a noun.

Look at the chart below and circle the suffix that was a ded to make each noun. Choose the correct form of the word to complete each question and then answer the questions.

Verb		Noun	
1.	attract	attraction	
2.	commit	commitment	
	discourage	discouragement	
	inhabit	inhabitant	
	vegetate	vegetation	
	combine	combination	
	preserve	preservation	

- 1. What would \_\_\_\_\_\_ you to Hawaii?
- 2. What types of \_\_\_\_\_\_ do people make during their life?
- How could you \_\_\_\_\_\_ a young person from vandalizing something?
- 4. How many \_\_\_\_\_\_ does your city have?
- 5. Why do some people like to \_\_\_\_\_ all day?



6. What	foods do you think are a good?
	d you be willing to donate money for the of al landscapes?
h G	rammar Review: Noun Substitutes
	e groups of sentences and study the pronouns in <b>bold</b> print. Circle the noun phrase that each pronoun replaces.
	ll of the Hawaiian Islands are popular tourists spots. In fact, one of is uninhabitable.
2. Many	years ago, this island was covered with vegetation; today, it is barren shospitable.
3. This p	orivately owned island has fewer than 250 inhabitants, and you need ritation from one of them to be allowed onto the island.
4. The o	wner of Niihau raises cattle on his secluded ranch, and many of the e on the island work for him.
5. With i	its wonderful surfing, beaches, and golf courses, Oahu draws the tourists of all.
i Se	entence Combining
	example and the model combinations below. Then rewrite sentences 1 and 2 the models.
Example:	Molokai is home to the Kalokeoli Fishpond. It's an example of the sophisticated aquaculture used a long time ago.
Models:	a. Molokai is home to the Kalokooli Fishpond, which is an example of the sophisticated aquaculture used a long time ago.
	b. Molokai is home to the Kalok oli Fishpond, an example of the sophisticated aquaculture used a long time ago.
	c. Kalokeoli Fishpond, which is on the island of Molokai, is an example of the sophisticated aquaculture used a long time ago.

1. Hawaii is home to Mt. Kilauea. It's the most active volcano in the world.

a. \_\_\_\_\_

b. \_\_\_\_

c. \_\_\_\_



۷.	Oahu is home to the Iolani Palace. It's the only royal palace in the United States.
	a
	b
	c

# **j** Writing

Choose a place you know well. In the chart below, list several facts and
opinions about the place. Then use the information in your chart to write a
short description of the place for your classmates to read.

Name of Place:

Facts	Opinions

lesson

Deserts

2



obert Francis/Getty Images

### Before You Read

- 1. How would you describe a desert?
- 2. What kinds of plants and animals live in deserts?
- 3. Can you think of some countries that have deserts?

### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- There is nothing static about deserts. The sizes and locations
  of the world's deserts are always changing.
- 2. One area's gain is another area's loss.
- Trees and other vegetation acted as a barrier between the Taklimakan and Kumtag deserts.
- Today, roughly 135 million people are at risk of losing their land to desertification and becoming refugees.

# 2 Deserts



They are some of the coldest places on Earth and some of the hottest. They exist on every continent except Europe, and together they cover roughly anethird of the land on Earth. We call them deserts, and they all have one thing in common—they get less than 250 millimeters of rain a year.

The world's largest and hottest desert spread across

North Africa from the Red Sea to the Atlantic Ocean,
covering more than 9 million square kilometers. It's

called the Sahara, which means "wilderness" in Arabic.

But the Sahara was not always a barren wilderness. At
one time, it was an area of lush vegetation with luge
river systems; cave paintings found in the area reveal
that elephants, giraffes, and other animals once

There is nothing **static** about deserts. The sizes and locations of the world's deserts are always changing. Over millions of years, as the climate changed and mountains rose, new dry areas developed. But within the last 100 years, deserts have been growing at

land unspoiled by humans



frightening speed. This is <u>due</u>, in part, <u>to</u> climate change, but the greatest desert makers of all are humans.

because of; a result of

The process of turning productive and into desertlike land is called desertification. Desertification takes
place slowly as small pieces of degrad of land spread
and merge together. Desertification can take place
naturally on the edges of existing deserts, or it can start
in small patches hundreds of miles away from the
nearest desert. When there is a drought, for example,
the winds and high temperatures dry the soil out.
Eventually, the topsoil is blown or washed away, and
nothing can grow in the area. Unfortunately, these
natural processes are greatly accelerated by the
activities of human beings.

happens

speeded up

The human activity most destructive to the soil is overgrazing. When there are too many animals eating the vegetation in an area, the root systems of the plants are destroyed and the soil is left without a protective cover. The unprotected soil can then be easily eroded. Any land that is cleared of vegetation becomes vulnerable to desertification.

A second cause of desertification is improper irrigation. Farmers in many parts of the world divert

45 water supplies for their crops. However, one area's gain is another area's loss. In China's Xinjiang Autonomous Region, for example, the building of doms and the withdrawal of water for irrigation have dried up the Tarim River. This has caused the trees and other

50 vegetation that acted as a barrier between the Taklimakan and Kumtag deserts to die off. Now the two deserts are spreading toward each other, and they may eventually merge.

a lot; noticeably

Deforestation also contributes significantly to
desertification. In developing countries, 90-percent of
the people use wood for cooking and heating.
However, cutting down trees for firewood leaves the
land exposed to the sun. The smaller plants that grow
under the trees cannot survive without the shade of
the trees. And without leaves from the trees to enrich

it, the soil becomes poor and deprived of nutrients. Eventually, the smaller plants die, and nothing remains but barren land. Oftentimes, the soil is so degraded that it becomes as hard as concrete. Large pieces of land cleared to grow crops can become useless in just a few seasons.

While humans have shown themselves to be a lept at making deserts, they can also stop their spread and even reclaim the land. In 1977, the United Nation invited representatives from around the world to conference on desertification. The members of the conference came up with a plan to stop or reduce desertification and to reclaim the degraded land. They also designated June 17 as World Day to Combat

75 Desertification and Drought. It is part of a United Nations campaign to make people more aware of land degradation.

Some of the methods for stopping the advance of deserts are quite simple. Algeria, for example, has planted a green wall of trees across the edge of the Sahara to prevent more land from turning into desert. Mauritania planted a similar wall around Nouak hott, its capital. In Kenya, farmers have planted more than 7 million trees around croplands to reduce wind erosion.

85 And now the Chinese government has started the world's largest tree planting project—a green wall that will stretch for more than 5,700 kilometers. In Iran, people put a thin layer of petroleum on the dry land to help the land hold water and newly planted vegetation.

To stop the overgrazing of land, some areas are requiring the careful management of livestock, while other areas have gone so far as to ban the grazing of certain kinds of animals on open land. To combat deforestation, people are being encouraged to use alternative methods of heating and cooking. Simple devices such as solar cookers and wind turbines can help to reduce people's dependence on wood.

Despite these efforts, the rate of desertification has doubled since the 1970s. Just since 1990, it is estimated

- - III

as cattle, pigs, and chickens prohibit; refuse to

farm animals such



that roughly 6 million hectares of productive land has been degraded each year. Today, roughly 135 million people are at risk of losing their land to desertification and becoming refugees. Perhaps UN spokesman 105 Michel Smitall described the situation best when he said, "It's a creeping catastrophe. Entire parts of the world might become uninhabitable."

a	Vocabulary			
	wilderness take place accelerate	degraded		
	Several bad accide to the icy roads.	ents that happened	last week were	
2.	In rainy climates,	there is	veget	ation.
3.		er and become less		
4.	There are no road	s through a	ar	ea.
		when driv		
6. While the road was being fixed, the police al onto a parallel street.				
	<ol> <li>During times of, people have to travel in search water.</li> </ol>			travel in search of
8.		land cannot be	used for agricult	ture.
9.		ys bad where the tv		
	The food supply v dropped suddenly	vas	for severa	l years, but then it
			a soon as land	l loses its vegetation.
<ol><li>Without immunization, children are diseases.</li></ol>				

	Vocabulary			
	barrier	significant	adept	reclaim
	erosion	management		banned
	despite	gain	refugees	catastrophe
1.	Thousands of p	eople help with the		of the United
	Nations.			
2.	It was a pretty of	quiet trip; nothing _		happened.
		l goats are example		
4.	The police put a	1	across the roa	ad to stop the traffic.
5.	The land around	d the house is in su	ch terrible condi	tion that it will take
	years to	it.		
6.	You can stop	it.	by planting trees	3.
7.	Tourists are	fr	om visiting the	island of Kahoolawe
		re still unexploded :		
8.	The war was a		for everyone in	wolved.
9.	He wore a coat		_ the hot weather	er.
0.	Doctors need to	be	at giving s	hots.
1.	The United Nat	ions tries to provide	e temporary faci	lities for
		of war.		
C	Vocabulary	Review: Antonyn	าร	
1a	tch the antonyms.			
	1. off-limit			
	2. barren	b. decrease		
	3. diverse	c. fail		
	4. impartia		3	
	5. expand	e. accessibl		
	6. achieve	f. imprisor		*
	7. focus on			
	8. accurate			
	9. gain	i. ignore		
	10. release	j. wrong		
	an acatalor	k. lush		
		IN THOSE		<b>A</b> 11

# d

# Comprehension Check: Multiple Choice

Circle the letter of the best answer.

 All deserts get less than \_\_\_\_\_ millimeters of rain a year. a. 25 b. 250 c. 2,500 2. Today, the amount of desert on Earth is \_\_\_ a. decreasing b. increasing slowly c. increasing rapidly 3. Natural processes and \_\_\_\_\_ cause descrification. a. human activities b. droughts c. winds 4. The Tarim River in China dried up because \_\_\_\_ a. there was a drought b. a barrier was built between the two deerts c. water was diverted for irrigation 5. The first UN conference on desertification took place in \_\_\_\_ a. 1977 b. 1985 c. 1990 6. In \_\_\_\_\_\_, a wall of trees has been planted around the capital of the country. a. Algeria b. Mauritania c. Kenya 7. To stop \_\_\_\_\_\_, some countries are encouraging people to use solar power. a. overgrazing b. deforestation

8. You could say that desertification is a \_\_\_\_\_ problem today than it was



30 years ago.
a. more serious
b. less serious
c. less understood

c. the diversion of water

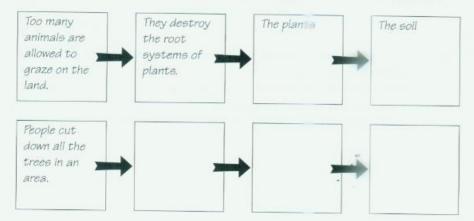
# e Comprehension Questions

- 1. How would you define a desert?
- 2. What is unique about the Sahara Desert?
- 3. What is desertification?
- 4. What are some natural causes of desertification?
- 5. How does overgrazing affect the land?
- 6. Why is cleared land vulnerable to desertification?
- 7. What negative effects did the diversion of water from the Tarim River in China have?
- 8. Why is deforestation happening so quickly?
- 9. What can people use for heating and cooking instead of wood?
- 10. What are some ways to stop the process of desertification?
- 11. Do you agree with Michel Smitall's opinion of desertification? Why or why not?

# f Reading Strategy: Identifying Cause and Effect

When you read a text that gives the causes and effects of something, you can improve your understanding by making a cause and effect chain with information from the text.

In the two chains below, add the missing information.



# 8 Vocabulary Expansion: Collocations

Look back over the reading on pages 113–116 to find another word to add to each list below.

- 1. Things you can clear: the table, the room,
- 2. Things you can grow: food, flowers,
- 3. Things you can reduce: the spread of a disease,
- 4. Things that can merge: two roads, two rivers, two
- 5. Things that you can plant: flowers, \_\_\_\_\_

# h Grammar Review: Prepositions

Write the missing prepositions on the lines.

To stop the overgrazing (1) \_\_\_\_\_\_ lard, some areas are requiring the careful management (2) \_\_\_\_\_ livestock, while other areas have gone so far as to ban the grazing (3) \_\_\_\_\_ certain kinds of animals (4) \_\_\_\_ open land. To combat deforestation, people are being encouraged to use alternative methods (5) \_\_\_\_\_ heating and cooking. Simple devices such as solar cookers and wind turbines can help to reduce people's dependence (6) \_\_\_\_\_ wood.

# i Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

- Example: Large pieces of land are cleared to grow crops. In just a few seasons, the land becomes useless.
- Models: a. Large pieces of land are cleared to grow crops, but in just a few seasons the land becomes useless.
  - b. Large pieces of land cleared to grow crops become useless in just a few seasons.
  - c. When large pieces of land are cleared to grow crops, the land becomes useless in just a few seasons.
- 1. Rivers are diverted to irrigate crops. Before long, the rivers dry up.

- Animals are allowed to graze on the land. They destroy the root systems of plants.
  - a. \_\_\_\_\_b.
  - С. \_\_\_\_\_

# **j** Writing

Choose one of the activities below or think of one of your own:

driving cars exploring space learning foreign languages
watching TV killing insects hosting the Olympic Games

Make a cause and effect chain identifying the effects of this activity. Then summarize your ideas in a paragraph for your classmates to read.

lesson

Antarctica

3



### Before You Read

- 1. What is the climate like in Antarctica?
- 2. What kinds of animals live there?
- 3. What kinds of research do you think scientists are doing there?

### Context Clues

The words in bold print below are from this lesson. Use context clues to guess what each word means.

- 1. Walking 2,700 kilometers across Antarctica is no easy feat.
- 2. While the surface of Antarctica is inhospitable to most living things, the water surrounding the continent is leeming with living creatures.
- 3. In 1959, the Antarctic Treaty established Antarctica as a special area to be governed internationally and used for scientific research.
- 4. The few scientists who remain in Antarctica for the winter have only radios, phones, and the Internet to link them to the rest of the world. After six or seven months, a plane returns with supplies and releases the scientists from their solitude.

# **Antarctica**



In 2001, Ann Bancroft and Liv Arnesen traveled 2,700 kilometers on foot across Antarctica, each pulling a sled carrying 100 kilograms of food and equipment. Crossing this land of extremes was no easy leat. The 5 temperature in Antarctica is often an unima inable -40°C—the temperature at which skin and ||esh freeze! Antarctica holds the record for the coldest temperature ever measured on Earth, which is -89.2°C.

the soft substance beneath the skin

Antarctica contains approximately 70 percent of the 10 world's fresh water supply, and yet it is considered to be one of the world's largest deserts. That's because Antarctica's enormous supply of fresh water is locked up in ice that averages over two kilometers in thickness. If the ice sheets melted, the seas would rise is much as

60 meters. However, like all other deserts on Earth,



Antarctica receives less than 250 millimeters of rain a year. It's hard to believe that, 500 million years ago, Antarctica had a warm climate and a cover of lush vegetation.

Despite the enormous size of the continent, only a few invertebrates can survive on the Antarctic peninsula, and even they are rare. The largest of this group is a type of midge, which grows to the colossal size of 12 millimeters. The only plant life that can survive in this harsh climate consists mainly of algae,

moss, and lichen.

While the surface of Antarctica is inhospitable to most living things, the water surrounding the continent is **teeming** with living creatures. At the bottom of the

food chain in Antarctic waters is a hardy type of algae.

During the winter, the algae live between the layers of snow on the sea ice, but when the ice breaks open in the spring, the algae pour into the ocean. Huge numbers of krill, tiny sea animals that are less than eight

35 centimeters long, feed on the algae. The krill, in turn, are a vital source of food for seabirds, fish, seals, whales, and penguins.

Animals are not the only creature drawn to the land of extremes. In 1959, the Antarctic Treaty established

40 Antarctica as a special area to be governed internationally and used for scientific research. The treaty declared, "It is in the interest of all mankind that Antarctica shall continue to be used forever for peaceful purposes and shall not become the score or object of international discord."

Today, Antarctica has more than 30 research stations, including those of Argentina, Australia, Chile, Germany, Great Britain, Italy, Japan, New Zealand, Russia, and the United States. Most scientists live and work there from

October to March, when the sun shines 24 hours a day. The second half of the year brings darkness and isolation. The few scientists who remain are trapped for months with only radios, phones, and the Internet to link them to the rest of the world. After six or seven animals without

a long strip of land surrounded by water and connected to the mainland

huge (used sarcastically here to mean very small)

succession of organisms, each of which uses the next lower member of the sequence as a food source

in sequence

disagreement;

55 months, a plane returns with supplies and releases the scientists from their solitude.

Scientists know that this huge, icy area holds important information about the planet. Their research has already shown that Antarctica plays a crucial role in the production of the cold deep water responsible for the circulation of water in the oceans. They also know that Antarctica holds the largest supply of firsh water on Earth. Much of their research focuses on a zone, a form of oxygen. The ozone layer protects living things from the dangerous rays of the Sun. In the nod-1980s, scientists discovered that the ozone layer above Antarctica was very thin.

Scientists have also discovered that the temperature of the air and the water in Antarctica has been slowly rising since 1970. Warmer temperatures result in less sealice during the winter months, and this may be having an effect on the Antarctic food chain. Scientists know that the number of krill in ocean waters near the Antarctic peninsula has **declined** about 80 percent since the 1970s. The most likely explanation is the decline in the amount

of winter sea ice and the algae that live on it.

Humans are also affecting the food chain in
Antarctica as they start harvesting krill in greater and
greater numbers. It turns out that krill is a useful
ingredient in a number of products. For example,

it's used to make <u>cosmetics</u>, contact lenses, <u>artificial</u> skin, and specialized cleaning supplies. Other natural resources in Antarctica are being similarly exploited <u>commercially</u>.

Scientists will continue to study penguin and krill populations and carefully watch the ozone laver above Antarctica and the ice in the seas. If we are smart, we will protect the Antarctic environment that is so vital to our own well-being.

movement (of something) in a circular path

beauty preparations used often on the

### Vocabulary extremely feat flesh unimaginable enormous peninsula artificial approximately food chain hardy teeming invertebrate \_\_\_\_ of animals, not the bones. 1. People eat the \_ continent, while Australia is quite small. 2. Asia is an \_\_\_ plant can grow just about anywhere. With temperatures of −40°C, Antarctica is an \_\_\_ place. 5. If you live on a \_\_\_\_\_ \_\_\_\_\_ you have water on three sides. 6. During the summer, the air is \_\_\_\_\_\_ with insects. 7. Making his or her nation's Olympic team is an amazing for any athlete 8. The way we live today would have been \_\_\_ \_ 200 years 9. Krill are an important part of the Antarctic \_\_\_\_\_\_. Without krill to eat, many larger animals would starve to death. \_\_\_\_ tree doesn' require any water. 11. An insect is an example of an \_\_\_\_\_\_, but a mouse is not. 12. I don't know exactly what the temperature is, but I think it's \_ 10°C. Vocabulary forever colossal in turn tr aty scene discord link solitude circulate decline h vest cosmetics If you need a lot of \_\_\_ \_\_\_\_\_, you should probably move into the countryside.

2. The police immediately went to the \_\_\_\_\_\_ of the crime to

\_ industry makes a lot of money on face creams

3. The \_

look for clues.

and lipstick.

4.			nd was a
200	mistake because it ki		
5.	It's important to		crops before wild animal eat them
6.	Romeo asked a quest	ion, and Juliet _	answered it.
7.	Doctors know that the cancer.	ere is a	between smoking and
8.	Nothing remains the	same	
9.	Unfortunately, war.		between two countries can lead to
0.	It sometimes takes ye	ears of negotiation	on to get countries to sign a
1.	Α	_ in the value o	f money can make it difficult for
	people to buy things.		
2.	They used a fan to		the heat around the house.
C	Vocabulary Revie	ew: Synonyms	
1at	tch the synonyms.		
	1. static	a. bold	
	2. adept	b. gain	
	3. daring	c. send	
	4. ban	d. forbid	
	5. achieve	e. happen	
		f. merge	
	7. due to	g. unchangin	g
_	8. take place	h. crime	
		i. because of	
		j. good at	_
1	Comprehension (	heck: True/Fal	se/Not Enough Information
0005			
	1. It's colder in th		Anterctica.
	<ol><li>2. Flesh freezes at</li></ol>		
	— 3. Even though th place.	ere is a lot of wa	ater in Antarctica, it is a very dry
			ADA 127

Lesson 3: Antarctica

4	. Many different kinds of invertibrates live in Antarctica.
	. A midge is a kind of invertebrate.
	. Algae feed on krill.
	. Penguins feed on krill.
	. No one stays in Antarctica year round.
	. The air temperature in Antarctica is going up.
	<ol> <li>There are more krill in the water surrounding Antarctica than there used to be.</li> </ol>
e co	omprehension Questions
1 TATI 1	and the south is not that makes Amtanation and area.
	are three things that make Antan tica unique? kinds of living things survive in and around Antarctica?
	is the food chain in the water surrounding Antarctica?
	is the purpose of the Antarctic Treaty?
	would you describe a scientist's life in Antarctica in the winter?
	effect does the cold deep water around Antarctica have on other
ocean	
	effects are the rising air and water temperatures having on the food
	in Antarctica? can krill be used for?
O. WHAT	can aim be used for:
f Re	eading Strategy: Using Context Clues
importar	ords in English have more than one meaning. As you read, it's nt to use context clues (the surrounding words and ideas) to guess the neaning of words.
	definitions of each word below. Then use context clues to guess the meaning rd in each context. Write the letter of the definition.
bold	
	courageous
<ul> <li>b impolit</li> <li>c distinct</li> </ul>	e; too direct
c distinct	
	<ol> <li>They chose a <b>bold</b> design for the building because they wanted it to stand out.</li> </ol>
	2. It takes a <b>bold</b> person to sail alone around the world.
	3. Entering without knocking was a <b>bold</b> thing for him to do.
120	

Unit 3: Places

moved	
a changed the position	on of
<b>b</b> sold	
c affected emotionall	y
4. The stor	y she told moved everyone in the room.
5. When the	ne store reduced its prices, everything moved quickly.
6. They m	oved all the furniture out of the room before painting it.
static	
a adjective not moving	
<b>b</b> noun crackling nois interference	e on the radio or TV caused by electrical problems or
7. We coul	dn't hear his voice above the static.
8. The nur	nber of animals in the area has remained static.
extreme	
a farthest away	
	ent from what most people think
c very great	
9. They liv	e at the extreme end of the road.
10. Choosir	ng to live in a cave is a pretty extreme idea.
11. The pub	olisher put extreme pressure on the writer to finish the
book au	nickly.

Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

Verb	Noun	Adjective	Adverb
imagine	imagination	(un)imagirable	(un)imaginably
circulate	circulation	circulatory	circularly
	extreme	extreme	extremely
link	link, linkage		
	artifice	artificial *	artificially
erode	erosion		

1.	If you can yourself I	iving thousands of years ago, then you mus
	have a good	
2.	Your blood	inside your body. If you have cold feet
	and hands, you might have bac	i
3.	Antarctica is at one	of planet Earth, while the Arctic i
	at the other.	
4.	Is there any	_ between the decreasing amount of sea ice
	and the decreasing number of l	
5.	Today, you can participate in sp	ports even if you have an
	knee or hi	p.
6.	Too much rain can cause seriou	s problems with
ł	1 Grammar Review: Article	es
$P_l$	ıt an article in each blank if one is n	tecessary.
	Despite (1) enormou	is size of (2) continent, only a few
	invertebrates can survive on (3).	Antarctic peninsula, and even they
	are (4) rare. The largest o	f this group is (5) type of midge,
	which grows to the colossal size	of 12 millimeters. (6) only plant
	life that can survive in this harsh	climate consists mainly of (7)
	algae, moss, and lichen.	Total Control of the
		Antan tica is inhospitable to most living
	things, the water surrounding (9	continent is teeming with (10)
		ottom of the food chain in Antarctic waters
	is (11) hardy type of algae	e. During the winter, (12) algae
	live between the lavers of snow of	on the sea ice, but when (13) ice
	breaks open in the spring, the ale	gae pour into the ocean. Huge numbers of
	krill, tiny sea animals that are les	s than eight centimeters long, feed on (14)
	algae The krill in turn	re (15) vital source of food for
	seabirds, fish, seals, whales, and	

# Sentence Combining

Read the examples and the model combinations below. Then rewrite sentences 1 to 4

following	the models.
Example:	Antarctica is a desert. Deserts receive less than 250 millimeters of rain a year.
Models:	<ul><li>a. Antarctica is a desert because it receives less than 250 millimeters of rain a year.</li><li>b. Like other deserts, Antarctica receives less than 250 millimeters</li></ul>
	of rain a year.  c. Because Antarctica receives less than 250 millimeters of rain a year, it is considered to be a desert.
1. The m	idge is an invertebrate. An invertebrate does not have a backbone.
2. Krill aı	re a vital source of food. Penguins and other animals could not e without them.
a	
Example:	Scientists say that the temperature of the air has been increasing. It has been increasing since 1970.
Models:	<ul> <li>Scientists say that since 1970 the temperature of the air has been increasing.</li> </ul>
	<ul> <li>According to scientists, the temperature of the air has been increasing since 1970.</li> </ul>
	<ul> <li>The temperature of the air has been increasing since 1970, say scientists.</li> </ul>
8. Scienti: happer	sts say that the number of krill has been declining. This has been ning since the 1970s.

What kinds of plants or crops grow in your native country? What kinds of climates do they grow in? What do people use them for? Make a chart about these plants or crops, and then share it with your classmates.

Name of plant or crop	Climate it's grown in	What it's used for
	Marie 1950	n minimum in section in

### lesson

# **National Parks**





avi A. SoudersiC

### Before You Read

- 1. Describe a national park you've visited or heard about.
- 2. What is the purpose of national parks?
- 3. Do you think it's important to have national parks? Why or why not?

### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- One goal of the park system was to preserve and protect unique natural landscapes and wildlife habitats.
- 2. With no one **assigned** to protect the area, vandalism by **curious** visitors became a problem.
- During the summer, the most popular parks are crowded and noisy.
- These parks contain the most ma sive trees on Earth and the tallest mountain in the continental United States.

# 4 National Parks



For centuries, Native Americans living in what is now the United States and Canada lived close to nature, using only what they needed from the natural environment in order to survive. But when Euroneans arrived on the continent, they saw an abundan e of materials that they could use and sell. They cut down the forests, killed

could use and sell. They cut down the forests, killed animals for sport, and used farming methods that allowed the wind and rain to ero le the soil. To many of the new settlers, it must have see ned that there was an endless supply of forests, animals, and land.

By the 1870s, settlers were moving west in astonishing numbers. It was at this time that a small group of people became concerned about protecting the magnificent scenery and abundant wildlife in an area

- 15 that is now part of the states of Wyoming, Montana, and Idaho. This part of the country had geysers, hot springs, and waterfalls; there were also mow-covered mountains, clear lakes, and huge trees. The group of concerned citizens worried that unless these natural
- 20 wonders were protected by the government, their

great supply (of something)



descendants would never have a chance to see them. In 1872, they <u>convinced</u> the U.S. government to make the area into a national park. Called Yellowstone National Park, it was the country's first national park.

persuaded

When Yellowstone National Park was created, no one gave much thought to how the park would be managed, who would actually protect it, and where the money to take care of it would come from in fact, during the park's first few years, no mone at all was
 provided to take care of it. And with no or assigned to protect the area, vandalism by curious visions and the killing of wildlife within the park's bound ry became serious problems. Finally, in 1883, the government asked the U.S. Army to protect the park, and for the next 30 years, it remained under the army control. In the final years of the 19th century, more national parks were established, hunting was banned in the parks, and

Realizing that the national parks needed to be
managed and protected, the U.S. government created
the National Park System in 1912. The goal of the
park system was to create and manage parks that
would preserve and protect unique natural
landscapes, wildlife habitats, and sites of historic or
cultural significance.

a few roads were built through the parks.

Today, the U.S. National Park System is made up of 375 parks, covering more than 300,000 square kilometers of land. The parks can be used for camping, hiking, fishing and boating. Scientists, nativalists, and historians provide information, give talks, and lead guided walks. Unfortunately, the immense popularity of the parks could well be their undoing. During the summer, the most popular parks are crowled and noisy. The greatest danger to the national parks, however, comes from the areas surrounding them. The parks are threatened by pollution from power plants, diversion of water for development, and unban development. Today, all of the 375 national parks are being degraded because of overuse and damage to their

downfall; destruction

related to a city

ecological units in nature



135

60 ecosystems.

Below is a list of some of the most threatened national parks.

### Acadia National Park, Maine

With more than 180 square kilometers of rugged
Atlantic <u>shoreline</u>, 26 mountain peaks, mixed forest, lakes, islands, and abundant wildlife. Acadia is plagued by ozone pollution, degraded scenic vistas, acid <u>deposition</u>, and mercury deposition.

### Everglades National Park, Florida

20 Everglades is North America's only subtropical preserve and the only place on Earth where alligators and crocodiles coexist. Sadly, southern Florida registers the highest mercury deposition levels anywhere in America.

### 75 Glacier National Park, Montana

Glacier boasts more than 1,000 kilometers of trails and hundreds of structures listed on the National Register of Historic Places. The park's temperature has risen dramatically in the past century and its glaciers have retreated—developments that scientists attribute in part to global warming.

### Great Smoky Mountains National Park, North Carolina and Tennessee

The world's salamander capital is the nation's most visited national park. It is also one of the country's haziest parks. Ozone levels here are harmful both to plants and to people.

### Mammoth Cave National Park, Kentucky

Containing the most extensive known cave system in the world, Mammoth Cave also boosts one of the most biologically diverse rivers in North America. This is another one of the country's hazies most ozone-polluted parks. Mercury threatens see an endangered species here.

coastline

laying down through natural processes; noun form of deposit

### 95 Sequoia and Kings Canyon National Parks, California

These parks contain the most massive trees on Earth and the tallest mountain in the continental United States. However, <u>pesticides</u> may be linked to a decline in wildlife in the parks, and the parks' plants are being damaged by ozone.

chemicals used to kill pests

### Shenandoah National Park, Virginia

Shenandoah represents one of America's most diverse botanical reserves and hosts approximately 1,400 known plant species. Acid rain pollutes park streams and has reduced the acid-neutralizing apacity of sensitive watersheds.

ability to hold or store easily damaged

From http://www.npca.org/across\_the\_nation/visitor\_experience/code\_red/fact\_sheets/default.asp. Adapted with permission from the National Parks Conservation Association.

# **a** Vocabulary

	abundance assigned undoing	B	citizens habitats urban	
1.	It takes the best	materials and a lot of	of work to build a	
		house.		
2.	It's difficult to r	nove in a	room.	
	Urban develops of animals.	ment is destroying th	e	of many kind
4.	There is an	of k	rill in the water a	round Antarctica.
		of the cou		
		in		
	things there.			#
7.	Everyone has an	nn	_ seat on a mairpl	ane.
		als to graze was the la		
		ould grow there.		
9.	If you are	abou	t ecosysten s, you	should try to learn
	more about they			

	area.		car if you live in a	
11.	Many	are	e opposed to drilling	ig in wildlife areas.
12.	She had to	the group that her plan was the		er plan was the best one
b	Vocabulary			
		deposits massive host	regi tered pesticides urban	
1.	They tried to pro	tect the most		_ areas in the state by
	banning motoriz	ed vehicles.		
2.	2. On a day, it's difficult to see the mountains in			the mountains in the
	distance.			
3.	If you dig down	into the earth,	you will find mine	ral
4.	As the	of	the party he made	sure that all his guest
	had enough to e	at and drink.		
5.	You can often fir	nd shells and s	seaweed on the	
6.	. The thermometer an unimaginable -50°F.			ginable –50°F.
7.	A temperature in change.	ncrease of 30°F	in one hour is a _	
8.	My car has a		of just four pe	ople.
9.	The pyramids ar	е	tructure	s.
		are dangerous to humans.		
11.	The wolves		when they saw	the campfire.
C	Vocabulary I	Review: Odd	One Out	

Circle the word that doesn't fit in each group.

- 1. disaster, catastrophe, territory, emergency
- 2. infertile, degraded, lush, contaminated
- 3. preserve, appoint, protect, save
- 4. cheat, murder, exploit, ponder
- 5. reliable, cooperative, foolhardy, responsible
- 6. designate, carve, decorate, weave

- 7. budget, referee, judge, witness8. arrogant, abusive, respected, combative

# Comprehension Check: Multiple Choice

Circle the letter of the best answer.

1.	Unlike Native Americans, many of the new settlers to North America
	a. tried to set up national parks
	b. used the land wisely c. cut down the forests
2.	The first national park in the United States  a. had geysers and hot springs  b. became a park in the 18th century  c. was in California
3.	The first national park  a. didn't have any visitors  b. wasn't protected  c. wasn't vandalized
4.	The government asked to protect the park.  a. a group of citizens b. curious visitors c. the U.S. Army
5.	The National Park System protects a. only natural areas b. more than just natural areas c. hunters
6.	is banned in some parks.  a. Hunting b. Fishing c. Camping
7.	Many of the national parks are being degraded in part because ofa. the abundance of wildlife b. the lack of visitors c. urban development

8. Sequoia and Kings Canyon National Parks are famous for \_\_\_\_\_.

a. their enormous trees

b. their cave system

c. their glaciers

# e Comprehension Questions

- How did the European settlers and the Native Americans use the land differently?
- 2. Where is Yellowstone National Park?
- 3. Who was responsible for creating Yellowstone National Park?
- 4. What problems did Yellowstone National Park have in its early years?
- 5. What is the purpose of the National Park System?
- 6. How are national parks being threatened today?
- 7. What types of pollution are affecting the parks?
- 8. Which of the parks listed on pages 136–137 sounds the most interesting to you? Why?

# Reading Strategy: Identifying Facts and Opinions Identify each statement below as a fact or an opinion. Write Fact or Opinion on the line. 1. To the early settler in North America, it must have seemed that there was an endless supply of forests. 2. Yellowstone National Park has magnificent scenery. 3. Yellowstone National Park was the country's first national park. 4. Unfortunately, the immense popularity of national parks could well be their undoing. 5. It is sad that mercury levels are high in southern Florida. 6. There are more than 1,000 trails in Glacier National Park. 7. The most massive tree on Earth is in California.

8. Pesticides may be linked to a decline in wildlife.

### Vocabulary Expansion: Word Forms

Look at the chart below and circle the suffix that was added to form each noun. Choose the correct form of the word to complete each question, and then answer the questions.

Verb	Noun
assign	assignment
manage	management
establish	establ shment
protect	protection
create	creation
astonish	astonishment
arrive	arrival
inform	information
pollute	pollution
divert	diversion

- 1. Do you think teachers should \_\_\_\_\_\_ homework over the weekend? 2. Would you want to be in charge of the \_\_\_\_\_\_ of a large company?
- 3. Do you think that the \_\_\_\_\_\_ of nationals parks is a good idea?
- 4. What would happen to the parks if they didn't have
- 5. Do you think that the \_\_\_\_\_\_ of international parks is a good idea?
- 6. How does a person's face show \_\_\_\_\_
- 7. Do you think the time will \_\_\_\_\_ when the national parks
- 8. What is a good source of \_\_\_\_\_\_ about air pollution?
- 9. Is it against the law to \_\_\_\_\_ the air and water?
- 10. How can the \_\_\_\_\_\_ of water endanger the land?

II Gra	ammar Review: Iransition Words
	ver for example finally
scene	year, thousands of tourists visit the area to see the magnificent ry, it's usually so hazy that they can't see ing in the distance.
	worked for years to convince the government to turn the area into a, in 1872, they got their wish.
	of the national parks are plagued by ozone pollution. , Mammoth Cave National Park has an extremely
	evel of ozone.  ia National Park has a beautiful shoreline and abundant wildlife.
	of the national parks include sites of historic importance
	ntence Combining
	xample and the model combinations below. Then rewrite sentences 1 and 2 the models.
Example:	The U.S. government realized that the parks needed protection. For this reason, it created the National Park System.
Models:	<ul> <li>a. Because the parks needed protection, the U.S. government created the National Park System.</li> <li>b. Realizing that the parks needed protection, the U.S. government created the National Park System.</li> <li>c. When the U.S. government realized that the parks needed protection, it created the National Park System.</li> </ul>
	S. government realized that the park was being vandalized. For this , it asked the U.S. Army to protect the park.
a b c	

Unit 3: Places

The citizens feared that the magnificent scenery would be destroyed. To stop this from happening, they asked the government to turn the area into a national park.

a. \_\_\_\_\_

С.



Imagine that you are visiting a national park. Write a short note describing what you see and hear. Include both facts and opinions in your description.

## Video Highlights

## a Before You Watch

- Think back to what you've read about U.S. national parks, and answer the questions.
  - a. Why were national parks formed?
  - b. What threatened Yellowstone National Park when it was first designated a national park?
  - c. What is the goal of the National Park Service?
  - d. What is threatening the purks now?
- Read the following quote from the video. Guess the meaning of the underlined words.
  - "A conservation group says many of those parks continue to be in jeopardy from everyday threats."
- You are going to watch a video about other national parks. Discuss in pairs what you think you will see, using some of the following words:

vegetation	secluded	preserve	lush
wilderness	eroded	protection	pollution
magnificent	habitats	urban	threats
shoreline	massive		

## **b** As You Watch

- Watch the video. What is the bad news about U.S. national parks? What is the good news?
- 2. Match each national park with the threat it faces.
  - a. Florida's Biscayne National Park \_\_\_\_\_\_ development
  - b. Great Smoky Mountains National Park \_\_\_\_\_ under-funding
  - c. The Underground Railroad network \_\_\_\_\_ air pollution

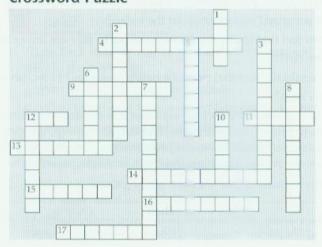
## C After You Watch

- 1. Form groups to answer the following questions.
  - a. Which national park would you most like to visit? Why?
  - b. What surprised you most about the video?
  - c. Do you feel that the problems national parks face are important? Why or why not?
  - d. How could the national parks be better protected? How can ordinary people help?
- The conservationist in the video says that it is the responsibility of the U.S. Congress to protect national parks. Working in a group, imagine that you are all conservationists. How can you convince Congress to spend more money on the parks? Complete the chart, and then present your ideas to the class.

If	then
If we clean up the parks,	then more tourists will come.
	The second second

## **Activity Page**

#### Crossword Puzzle



#### Across

- Companies are harvesting krill in Antarctica for \_\_\_\_\_ uses.
- Animals are in danger of becoming extinct when their natural \_\_\_\_\_ is destroyed.
- 11. setting, where something happens
- Many cities in the United States have passed legislation to smoking in public places.
- 13. This bus is too \_\_\_\_\_. Let's wait for the next one.
- 14. an unexplored area
- Hawaii has more \_\_\_\_\_ diversity than any other state in the United States because people from many countries settled there.
- 16. huge, massive
- 17. \_\_\_\_\_ is one natural cause of desertification.

#### Down

- Running a marathon is an amazing \_\_\_\_\_ of endurance.
- 2 Many \_\_\_\_\_ visit Florence every year to see the museums and architecture.
- 3 Chemical \_\_\_\_\_ get rid of insects but can be harmful to crops.
- Someone who asks a lot of questions is \_\_\_\_\_.
- 6 Kelly is a \_\_\_\_\_ of California. She was born in Orange County.
- 7 grand, majestic
- 8 land that has water on three sides
- Disadvantages to living in \_\_\_\_\_ areas include traffic and pollution.
- 12 Poor time management skills can be a \_\_\_\_\_ to completing work on time.

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## **Dictionary Page**

#### **Learning About Word Stress**

Your dictionary includes information on which syllables in a word are stressed, or spoken with force or emphasis. The *primary stress* indicates the syllable that should receive the heaviest stress. Some words have a *secondary stress*, which indicates the syllable that should receive the next heaviest stress.

secondary stress primary stress

in-hos-pi-ta-ble / inhos pitabal/ adj 1 not welcoming, unfriendly: Some people in this big city are inhospitable to tourists. 2 difficult to live in because of bad weather or geography: The climate of the North Pole is inhospitable to humans.

Look at the words below. Double underline the primary stress.
 Underline the secondary stress.

Example: inhospitable

uninhabitable lush
artificial barren
vulnerable static
hazy commercial
colossal abundant

Write each of the above words in the proper column of the chart below, depending on whether its meaning is generally positive or negative or can be either.

#### ADJECTIVES DESCRIBING PLACES

Positive	Can be positive or negative	Negative
lush		barren
		parren



## Science and Technology

unit 4

I was taught that the way of [scientific] progress is neither swift nor easy.

—Marie Curie



lesson

Satellites



#### Before You Read

- 1. What is the definition of a satellite?
- 2. What are satellites used for?
- 3. Which country put the first satellite in space?



#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- Satellites are bodies that travel around a planet. Our Moon is a satellite because it orbits the Earth.
- Some satellites orbit at very high altitudes of more than 32,000 kilometers from Earth.
- Weather satellites have to travel very fast to prevent gravity from pulling them back to Earth.
- 4. Communication satellites have a lifespan of 12 to 13 years.
- Computers on ships and planes can use satellites to calculate their position.



In astronomy, satellites are defined as bodies that travel around a planet. Our Moon is a atellite because it orbits the Earth. In addition to these natural satellites, there are many human-made satellites evolving

around the Earth and other planets in our solar system. Some of these satellites orbit at very high altitudes of more than 32,000 kilometers from Earth, while others stay close to Earth at altitudes of about 250 kilometers. Each human-made satellite sent into space has a special mission, or purpose, based on the kind of satellite it is. The six major kinds of human-made satellites in space are weather satellites, scientific research satellites, Earth observation satellites, communication attellites, navigation satellites, and military satellites.

Weather satellites help scientists mo itor the weather patterns on Earth. Information from we ther satellites is invaluable for making weather forecast, and warning of potentially dangerous weather conditions such as hurricanes and tornadoes. Weather satellites travel in what is called low earth orbit (LEO). That means they travel between 320 and 800 kilometers above the Earth. A satellite at this altitude can get detailed pictures of our planet, but it has to travel very fast to provent gravity from pulling it back to Earth. Some of these satellites travel as fast as 27,000 kilometers per hour, orbiting the Earth in just 90 minutes.

Scientific research satellites travel in space collecting information and conducting experiments to help us better understand the solar system. For example, a satellite called *SOHO* is studying the atmosphere, surface, and internal activity of the Sun-Satellites can serve as unique research laboratories. For example, it's possible to grow high-quality human protein crystals and tissue cultures inside a space station because gravity is so low (almost zero). Without the pressure of gravity, the crystals can grow equally in all directions.

the science of outer space

distances above sea level

directional guidance for ships and airplanes armed forces observe over time extremely valuable possibly



Deciphering the protein codes of these crystals may help in the development of new medicines to combat diabetes, cancer, and other diseases. The tissue cultures may also be used to test new cancer treatments.

Earth observation satellites are used to observe rain forests, water supplies, and other natural resources and to monitor environmental problems such as pollution and deforestation. These satellites are important because they can help control the spread of disease in crops and forests. They can also detect fires and floods before they become too big.

We use communication satellites for voice, data, and television communications around the world These 50 satellites serve as relay stations, receiving information from one place and sending it on to another place. Most communication satellites stay at a high altitude of about 35,000 kilometers above the Earth. Because of their speed and the size of their orbit, these satellites revolve 55 around in 24 hours. Because the rate at which they travel is the same as the rate of rotation of the Earth, the satellites remain over the same place on the Farth's surface. This area on Earth is called the satellite's footprint. If a satellite's footprint covered Africa, for 60 example, a person would use this satellite when communicating with other people in Africa. When someone in Africa wanted to communicate with someone in a different footprint, the message would be relayed using more than one satellite. Today, there are 65 roughly 100 communication satellites orbiting the Earth, each with a lifespan of 12 to 13 years. At any one time, a

Navigation satellites help guide ships at sea and airplanes in the sky. Computers on the ships and planes can calculate their position using the information they receive from satellites. Many cars in the 21st century have a global position system, or GPS. A GPS is so versatile it can navigate a car around a city block or across an entire country.

large communication satellite can carry more than 100,000 telephone calls and several television signals.

figuring out the meaning of; interpreting

find; discover

detailed bits of information

turning on an axis or around a center

capable of doing many things



Military satellites are weather, communication, and observation satellites used for military purposes. Some military satellites are called "spy satellites" because they monitor the activities of other countries and send the information back to their ground stations. These satellites can take extraordinarily defided pictures of things on the ground, which makes them a powerful tool for the military. For example, they can provide information on the position of ships and aircraft as well as the movement of troops on the ground. Military satellites are also used to ensure safe communications between ships, aircraft, and ground lations. In addition to taking photographs, military satellites have also been used in modern warfare to direct missiles and destroy specific targets.

Satellites are able to stay up in space because they move fast and because the Earth's gravity keeps them there. Imagine tying an object to the and of a long string and spinning it around in the air. The object will remain in motion as long as it is moving fast and the string remains connected. If you stop or cut the string, the object will fall. This is how satellites work. Sometimes they have problems and need to be paired. While this can usually be done from Earth by computers, it may be necessary for people to go into space to repair them. If they cannot be repaired, they are simply disabled and left to float in space forever. This is what is called "space junk."

It was roughly 50 years ago that the former Soviet
Union sent the first human-made satellite into orbit. The football-sized satellite was appropriately named Sputnik, which means "satellite" in Russian. Sputnik 2 went up one month later carrying a dog named Laika, the first animal to go into space. Since that time,
hundreds of satellites have been sent into orbit around the Earth and other planets in the solar system with the goal of collecting valuable information for people on Earth.

moving

fixed

made unable to function

suitably; properly; correctly

a	Vocabulary			
	astronomy navigation potential	military		altitude invaluable code
1.	How many moons	s	the planet Jupi	ter?
3.	Without	, we w	ouldn't be able to s	tay on the ground.
4.	The study of object	ts in space is calle	ed	
5.	How long does it Sun?	take for the Earth	to	around the
6.	When the two cou		gotiate a treaty, the	
7.	The message was		, and 1	no one could
8.	I can think of two working.		reasons why the	e satellite isn't
9.	At what	do pe	ople start having tro	ouble breathing?
			any amount of mone	
11.	It's the responsibil activities.	ity of parents to _		their children's
b	Vocabulary			
	detects calculate disabled	data versatile code	rotate in motion appropriate	lifespan repair tissue
1.	You can store a lot	of	in a compute	r.
	What's the averag			
3.	It's easier to take p things that are		ngs that are standin	g still than of
4.			smoke before a fire	can become large.

A lot of people used to	The alarm wouldn't	stop ringing, so we	e finally it.
The most actors can play many different roles.  How long does it take the Earth to once?  Do you know how to the area of a triangle?  Samples of human are used in research to find treatments for many types of disease.  Vocabulary Review: Antonyms  atch the antonyms.  1. imperative			their own cars, but now the
How long does it take the Earth to once?  Do you know how to the area of a triangle?  Samples of human are used in research to find treatments for many types of disease  Vocabulary Review: Antonyms  **Tich the antonyms**  1. imperative a. slow down 2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair			
Do you know how to the area of a triangle?  Samples of human are used in research to find treatments for many types of disease  Vocabulary Review: Antonyms  Itch the antonyms.  1. imperative			
Samples of human are used in research to find treatments for many types of disease  Vocabulary Review: Antonyms  Itch the antonyms.  1. imperative a. slow down 2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair			
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1. imperative a. slow down 2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	treatments for many	types of disease	
1. imperative a. slow down 2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair			
1. imperative a. slow down 2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	Vocabulary Rev	iew: Antonyms	
2. succeed b. clear 3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	itch the antonyms.		
3. accelerate c. hardy 4. crowded d. unnecessary 5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	1. imperative	a. slow down	
4. crowded d. unnecessary  5. barren e. in motion  6. hazy f. fertile  7. massive g. harvest  8. sensitive h. natural  9. artificial i. repair	2. succeed	b. clear	
5. barren e. in motion 6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	3. accelerate	c. hardy	
6. hazy f. fertile 7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	4. crowded	d. unnecessary	
7. massive g. harvest 8. sensitive h. natural 9. artificial i. repair	5. barren	e. in motion	
8. sensitive h. natural 9. artificial i. repair	6. hazy	f. fertile	
9. artificial i. repair		g. harvest	
	7. massive	12	
10. static j. fail		h. natural	
- CONTRACTOR ONE #77.5000	8. sensitive		
	8. sensitive		

1.	All satellites orbit the Earth.
2.	Weather satellites travel at a lower altitude than communication satellites do.
3.	Weather satellites travel very fast.
4.	The rate at which weather satellites orbit the Earth is the same as the rate at which the Earth rotates.
5.	The satellite SOHO orbits the Earth.
6.	The lack of gravity in a satellite makes it difficult to do research.
7.	Observation satellites can help prevent large fires.
8.	There is one primary communication satellite in orbit around the Earth.
9.	Military satellites can take detailed photographs.
10.	Useless satellites are usually destroyed

- Comprehension Questions
- 1. What is the definition of a satellite?
- 2. What are the six main types of satellites?
- 3. Why do you think weather satellites travel in low earth orbit?
- 4. Why do weather satellites have to travel very list?
- 5. What is the mission of the satellite SOHO?
- 6. Why are scientists using a space station to grow protein crystals and tissue cultures?
- 7. What is a satellite's footprint?
- 8. What are three facts about communication satellites?
- 9. What are two important missions of military swellites?
- 10. What is "space junk"?





## Reading Strategy: Main Ideas and Details

In the chart below, identify the main idea in each paragraph. Then summarize the most important details in your own words.

Main idea	Important details
Satellites are bodies that orbit a planet.	Some are natural, and some are human-made. They travel at different altitudes. There are six main kinds: weather, research, Earth observation, communication, navigation, and military.
	Satellites are bodies that orbit a planet.

## g

## Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

	Verb	Noun	Adjective	Adverb
1.		astronomy astronomer	astronomical	astronomically
2.	rotate	rotation		
3.	calculate	calculations		
4.	disable	disability	disabled	
5.	communicate	communication communicator	communicative	
5.	detect	detection detector detective		
	orbit	orbit	orbital	
3.	navigate	navigation navigator		

1. The government is spending less money on \_\_\_\_\_\_\_ research these days. That's why there are now more unemployed \_\_\_\_\_\_.

2. The Earth \_\_\_\_\_\_\_ on its axis. It makes one full \_\_\_\_\_\_ in 24 hours.

3. What instruments do astronomers use to \_\_\_\_\_\_\_ the distance to faraway stars?

4. He was injured at work. Because of his \_\_\_\_\_\_\_, he gets a check every month.

5. Some people are more \_\_\_\_\_\_\_ than others.

6. Dogs can \_\_\_\_\_\_\_ many smells that humans are not aware of.

7. There is a lot of space junk in \_\_\_\_\_\_\_ around Earth.

8. Could you \_\_\_\_\_\_\_ a boat across the ocean without special equipment designed for \_\_\_\_\_\_?

## h

#### Grammar Review: Active and Parsive Verbs

Rewrite each sentence below by changing the artive verbs to passive verbs and the passive verbs to active verbs.

Example: Earth observation satellites are used to observe the Earth's rain forests.

We use Earth observation satellites to observe the Earth's rain forests.

- 1. Weather satellites warn 159us of potentially dangerous weather conditions.
- 2. Observation satellites can detect fires before they spread.
- 3. Navigation satellites guide ships at sea and airplanes in the sky.
- Information on the movement of troops on the ground is provided by military satellites.
- 5. Satellites in orbit can sometimes be repaired by computers on Earth.
- 6. The former Soviet Union sent the first human-made satellite into orbit.





#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: Military satellites are used to take photographs of troop movements. They are also used to direct missiles.

Models:

- Military satellites are used to take photographs of troop movements and direct missiles.
- In addition to taking photographs of troop movements, military satellites are used to direct missile
- c. Taking photographs of troop movements and directing missiles are two uses of military satellites.
- Scientific research satellites are used to study the Sun. They are also used to do laboratory experiments.

a		
o.		

- Weather satellites are used to collect information about weather patterns.They can also give warnings of dangerous weather conditions.
  - a. \_\_\_\_\_\_b.
  - c.



#### Writing

The reading in this lesson discussed six types of human-made satellites. Choose something of interest to you that comes in at least three different types. In your writing, give information about each type. Before you start writing, you might want to collect ideas in a chart like the one on page 158.

lesson

## Comets



#### Before You Read

- 1. What do you know about comets?
- 2. Have you ever seen a come! in the sky?
- 3. A long time ago, people were afraid of comets. Why do you think that was?

#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- These bizarre objects seemed to appear suddenly out of nowhere, and they seemed to have no predictable pattern.
- 2. Some people thought comets were **messeng** rs, bringing news of disasters to come.
- 3. Halley **compiled** his data in a book about the location of the stars in the sky.
- 4. In 2004, the *Stardust* spacecraft flew within 236 kilometers of a comet called Wild 2.
- 5. If we are **fortunate**, comets will provide us with answers to some important questions.

If you happen to gaze up in the sky at just the right time in the year 2061, you might get to see one of the most famous comets of all. It's called Halley's Comet, and people get a chance to see it every 76 years when the comet's orbit brings it close to Earth.

Comets are satellites made up prin arily of ice (both water and frozen gases) and dust. All comets orbit the Sun, but some complete a revolution of the Sun in just a few years while others need several hundred thousand years. When a comet passes close to the Sun, the ice in the comet melts and dust particles are released. These dust particles form the comet's famous tail, or "long hair," which can extend for more than 10 million kilometers. It should be no surprise that the word comet comes from the Greek word kometes, which means "long-haired."

For much of human history, people were terrified of comets. These bizarre objects seemed to appear suddenly out of nowhere, and unlike the Sun and stars, they

20 seemed to have no predictable pattern. Some people thought comets were messengers, bring ing news of disasters to come. Comets were blamed for earthquakes, wars, floods, and an assortment of other catastrophes. It wasn't until late in the 17th century that Sir Isaac Newton discovered that comets orbit the Sun in predictable patterns, a discovery that helped to discovery people's fear of the long-haired messengers of dom.

Edmond Halley, another famous as ronomer, was born in London, England, in 1656. He studied astronomy at Oxford University until 1676, when he went off to study the stars and planets of the southern hemisphere. Later, he compiled his data in a book about the location of the stars in the sky; he was the first person to map them accurately. Halley also observed the Moon and studied how it affects the ocean tides. He helped to find a way to measure distances in space. This measurement system was used by other scientists to

mainly

very small pieces

very strange

get rid of unhappy ending

164



learn about the size of our solar system and the distances of many stars and planets from Earth.

Edmond Halley was especially fond of studying comets. He read about comets and observed them in the sky. He learned about the way they move abound the Sun, each comet following a different path and traveling at its own speed. Over time, he calculated the orbits of
 24 comets that he had either read about or soen himself.

Halley noticed that the paths of a comet seen in 1531 and of a comet seen in 1607 were identical to the path of a comet he had observed in 1682. He concluded that these three comets were, in fact, the same comet.

50 Because Halley accurately predicted that the comet would come again in 1758, it was decided to name the comet after him. The earliest known reports of Halley's Comet were actually made over 2,000 years go by Chinese astronomers, so we know that it has been

orbiting the Sun for more than 2,000 years. Halley's Comet is one of the brightest comets—bright enough for people to see without a telescope.

The orbits of more than 850 comets have now been calculated. Of these, at least 184 are called priodic comets because they orbit the Sun in less than 200 years. Studying comets may give us information all out the origins and formation of the solar system. In 2004, the Stardust spacecraft flew within 236 kilometers of a comet called Wild 2. From this distance, the stardust was able to take extraordinarily detailed photographs of the comet. Then, in a 12-minute pass through Wild 2's dust and gas cloud, the Stardust mission was able to collect a spoonful of comet dust to bring back to Earth for further study. Another spacecraft called Rosetta is expected to actually land on a comet named Churyumov-Gerasimenko in the year 2014.

With satellites providing more and more information, comets will continue to captiva professional and amateur astronomers, as well as the general public. And if we are fortunate, comets may soon answer some fundamental questions about the origins of the solar system.

beginnings inside

additional; more

interest greatly

basic; primary



a	Vocabulary	Land State		
	primary doomed further	particle periodically fundamentals	messenger originated fond	
1.	She got a	of	sand in her eye, and	now it hurts.
2.	Wouldn't you ranews?	nther be a	of goo	d news than of bad
3.	Where can you	get	information	about comets?
			for leaving the job wa	
			of s	
6.	He's	of cats	s, but he doesn't like	dogs.
			to die young just	
8.	Theaccurately.	of the s	solar system may nev	er be described
9.	She took a short	plane trip to try	to	her fear of flying
10.	My sister doesn	't live very far av ——•	vay so I get to visit he	er
			ive friends who care s	
b	That very tall tre	ee	from a tiny se	ed.
	bizarre further fond	assortment captivating origin	compile dispelled primarily	
	There is an you want.		of drinks on the table	e. Choose the one
	This book has a put it down.		story. I don't this	nk you'll be able to
3.	She likes to shopping.		a list of things she ne	eeds before she goes

4. You can do many diffe	erent things with a	purpose tool.
5. After his accident, he	started doing	things like
singing on the train ar	nd throwing things all p	people.
6. There was a fire at the	school, but	no children were
there at the time.		
7. What is the	of the word	l comet?
8. He said he would be l	nere	an hour, but it has already
been an hour and 20 r	minutes and he's still no	ot here.
9. Weather satellites are	used	for collecting information
about the weather.		
10. He's	of all his grandchi	ldren, but I think he likes
Sylvia best.		
11. By coming to the mee	ting, the president	reports that
he was very sick.		
12. After they completed	the first part of the test	t, the students needed
	instruction.	
Vocabulary Review	ew: Definitions	
Match the words with their	definitions.	
1. livestock	a. baked at a high te	mperature
2. off-limits	b. a perfect place	
3, fired	c. a period of time	vith very little rain
4. adapt		n as cattle and chickens
5. millennia		
6. utopia	f. something you	
7. drought	g. the number of year	
8. commercial	h. bring back to life	
9. abundant	i. change in order to	survive
10. lifespan	j. thousands of you	
5 0 160 167 C 165 C 186 C 186 C	k. not available; fort	
	l. money-making	

## d

## Comprehension Check: Multiple Choice

Circle the letter of the best answer
--------------------------------------

- 1. All comets \_\_\_\_\_.
  - a. orbit the Earth
  - b. consist of ice and dust
  - c. appear every 76 years
- 2. When a comet gets close to the Sun, \_\_\_\_\_
  - a. the dust particles melt
  - b. it slows down
  - c. the ice melts
- 3. People used to be afraid of comets because \_\_\_\_\_.
  - a. they didn't appear regularly
  - b. they were made of ice and dust
  - c. they orbited the Sun
- 4. People were less afraid of comets after Newton discovered that comets
  - a. travel in a regular pattern
  - b. orbit the Earth in a pattern
  - c. are messengers of doom
- 5. Edmond Halley was \_\_\_\_\_
  - a. a French astronomer
  - b. ignorant of comets
  - c. a compiler of data about comets
- 6. Halley's Comet appears \_\_\_\_\_
  - a. every 60 years
  - b. periodically
  - c. at unexpected times
- 7. The first report of Halley's Comet was \_\_\_\_\_
  - a. over 2,000 years ago
  - b. in 1531
  - c. in 1758
- 8. Halley's Comet will appear again near Earth in \_\_\_\_\_
  - a. 2061 and 2102
  - b. 2061 and 2127
  - c. 2061 and 2137

- 9. The Stardust mission collected \_\_\_\_\_.
  - a. ice from a comet
  - b. dust from a comet
  - c. photographs of the Sun
- 10. The satellite Rosetta is supposed to \_\_\_\_\_\_ the comet

Churyumov-Gerasimenko.

- a. set down on
- b. destroy
- c. navigate

## e Comprehension Questions

- 1. What are three ways in which all comets are alike?
- 2. What are three ways in which comets are different from each other?
- 3. In the past, why were people terrified of comets?
- 4. In the past, what did people think comets were?
- 5. What did Sir Isaac Newton discover about comets?
- 6. What did Edmond Halley learn about come is?
- 7. Why did Edmond Halley have a comet named after him?
- 8. What did the Stardust mission do to help us learn more about comets?
- 9. What is the Rosetta's mission?
- 10. Why do you think so many people are captivated by comets?

## f

#### Reading Strategy: Identifying Cause and Effect

When you read, it's important to notice the cause and effect relationship between ideas in the text.

Match each cause on the left to an effect on the right. Write the number of the cause on the line.

Cause Effect 1. People didn't understand what The Sun melts the ice in comets were. the comet. 2. A comet moves close to the Sun. It was able to take detailed 3. Some comets are very bright. photographs. 4. The satellite flew within It was able to collect dust 236 kilometers of the comet. particles. 5. The satellite flew through the They were afraid of comets. comet's tail. You can see them without a telescope. They reported its appearance over 2,000 years ago.

## 8 Vocabulary Expansion: Collocations

We often use certain nouns and verbs together. For example, the verb dispel means "to cause something to go away," but only certain things can be dispelled. You might talk about dispelling someone's shyness, but you probably wouldn't talk about dispelling a wild animal.

Match the verbs and nouns that you can use together. Write the number of one or more verbs next to each noun.

Verbs	Nouns
1. dispel	a. facts
2. combat	b. someone's attention
3. compile	c. crops
4. divert	d. a crime
5. monitor	e. someone's lear
6. harvest	f. the water in a river
7. commit	g. someone's performance
8. applaud	h. vandalism
	i. a disease
	j. statistics
	k. the ship's movements
	l. someone's belief
	m. a child's temperature

## h Grammar Review: Compound Nouns

The words space station and research satellite are called compound nouns because they are formed by putting two nouns together.

Use the nouns below to form 10 compound nouns. Write your compound nouns on the lines given.

military solar system emergency facility	barrier navigation code satellite treaty	research management data catastrophe
1	6 7 8 9	
4 5	10.	

## i

#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 to 3 following the models.

Example: Halley correctly predicted that the comet would appear again in 1758. For this reason, it was decided to name the comet after him.

Models: a. Because Halley correctly predicted that the comet would appear again in 1758, it was decided to name the comet after him.

- b. It was decided to name the cornet after Halley because he correctly predicted that it would appear again in 1758.
- c. The reason the comet was named after Halley was that he correctly predicted that it would appear again in 1758.
- Newton explained that comets moved in predictable patterns. For this reason, people weren't so afraid when they saw a comet in the sky.

a		
b		
C.		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11.1

- Halley's Comet is an extremely bright comet. For this reason, you don't have to have a telescope to see it.
  - a. \_\_\_\_\_
  - C.
- 3. Halley spent a long time studying the location of the stars. For this reason, he was able to make an accurate map of the stars.
  - a. \_\_\_\_\_\_b.
  - 0.



#### Writing

Have you ever thought about traveling in space? Imagine that you are exploring the solar system. Use your imagination to write a description of your trip.

# 3

## Motor Vehicles: The Pros and Cons



## darmamath/Gg

### Before You Read

- 1. What are some positive effects of automobiles?
- 2. What are some negative effects of automobiles?
- 3. What do you think the future of the automobile is?



#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- 1. **In spite of** their advantages, motor vehicles have many critics because of their harmful effects.
- 2. At **peak** traffic periods in Los Angeles, it can take three hours to drive only 32 kilometers.
- 3. Two-thirds of its downtown area is devoted to roads, parking lots, gas stations, and other automobile-related uses.
- 4. Automobiles and highways have provided almost unlimited mobility to people in the United States.

## 3 Motor Vehicles: The Pros and Cons

0

The automobile has many advantages. Above all, it offers people the freedom to go where they want to go, when they want to go there. The basic purpose of a motor vehicle is to get people from point A to point B as cheaply, quickly, and safely as possible. However, to most people, cars are also personal <u>fantasy</u> machines that serve as <u>symbols</u> of power, success, speed excitement, and adventure.

dream: illusion

In addition, much of the world's economy is built on 10 producing motor vehicles and supplying roads, services, and repairs for those vehicles. Half of the world's paychecks and resource use are auto related.

In the United States, one of every six dollars spent and one of every six nonfarm jobs are connected to the automobile or related industries, such as oil, steel, rubber, plastics, automobile services, and high way construction. These industries account for 20 percent of the annual GNP and provide about 18 percent of all federal taxes. Together, they also are the world's largest consumer of energy and raw materials.

explain

users

In spite of their advantages, motor vehicles have many critics because of their harmful effects on human lives and on air, water, land, and wildlife. The automobile may be the most **destructive** machine ever invented. Though we tend to **deny** it, riding in cars is one of the

25 Though we tend to <u>deny</u> it, riding in cars is one of the most dangerous things we do in our daily lives

Since 1885, when Karl Benz built the first automobile, almost 18 million people have been killed by motor vehicles. Every year, cars and trucks worldwide kill an average of 250,000 people—as many as were killed in the atomic bomb attacks on Hiroshima and Nagasaki—and injure or permanently disable 10 million more. Half of the world's people will be involved in an auto accident at some time during their lives.

refuse to admit



35 By providing almost unlimited mobility, automobiles and highways have been the biggest <u>factor</u> leading to urban <u>sprawl</u> in the United States and other countries with large livable land areas. This <u>dispersal</u> of businesses and people from cities has made it increasingly difficult for subways, trolleys, and buses to be economically <u>feasible</u> alternatives to private cars.

Los Angeles is a global symbol of urban sprawl, built around a vast network of freeways. An estimated one-third of the city's total metropolitan area and two-thirds of its downtown area are devoted to roads, parking lots, gas stations, and other automobile-related uses. Each day, its network of streets and freeways is crowded with more than 5 million vehicles, which are responsible for 85 percent of both the air pollution and the noise in this urban area. At peak traffic periods, it can take three hours to drive only 32 k lometers.

In 1907, the average speed of horse drawn vehicles through New York city was 18.5 kilometers per hour. Today, cars and trucks with the potential power of 100 to 300 horses creep along New York City streets at an average speed of 8 kilometers per hour. In London, average auto speeds are about 13 kilometers per hour, and they are even lower in Paris and in Tokyo, where everyday traffic is called *tsukin igoku*, or "commuting hell."

Streets that used to be for people are now for cars.

Pedestrians and people riding bicycle in the streets are subjected to noise, pollution, stress, and danger.

Motor vehicles are the largest sour e of air pollution, producing a haze of smog over the world's cities. In the United States, they produce at least 50 percent of the country's air pollution, even though U.S. emission standards are as strict as any in the world.

Worldwide, motor vehicles account for 13 percent of
the input of the primary greenhouse gas, carbon dioxide
(CO<sub>2</sub>), into the atmosphere. In the United States, they
account for almost 25 percent of the country's CO<sub>2</sub>
emissions (the highest in the world) and 13 percent of
the emissions of chlorofluorocarbons, which act as

cause; fact to be considered outward growth spreading out in different directions

possible

people who are walking

something sent out into the air difficult to obey



75 greenhouse gases and also <u>deplete</u> life-<u>sustaining</u> ozone in the stratosphere.

Motor vehicle use is also responsible for water pollution from oil spills, gasoline spills, and leakage and dumping of used engine oil, as well as contamination of underground drinking water from leaking underground oil and gasoline storage tanks.

Oil addiction, based mostly on addiction to energy-inefficient gasoline-powered vehicles, also increases the chance of wars, as the United States and other countries

attempt to protect oil supplies in the oil-rich but volatile Middle East. What do you think should be done?

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use up; reduce by using too much keeping in existence; maintaining

likely to change suddenly; explosive

## **a** Vocabulary

account for fantasy symbol construction annual consumes in spite of deny sprawled disperse mobile factor 1. The Olympic \_ consists of five rings. is to sail around the world, but I know it will 2. My \_\_ never happen. \_\_\_ in his decision to 3. The rising cost of gasoline was one \_\_\_ get rid of his car.

4. Your \_\_\_\_\_\_ income is 12 time your monthly income.

5. A large truck \_\_\_\_\_ gasoline faster than a small car.

 People keep buying large cars \_\_\_\_\_\_ the harmful pollution they create.

7. You don't have to have a car to be \_\_\_\_\_

 No one can walk into this room because the children are on the floor, watching TV.



	v can sue	ca	using the accider	nt? I saw her do it.		
). The	wind helps t	0	the seeds.			
		jobs are among	jobs are among the most dangerous.			
2. I car	n't	the time	the time between 3 p.m. and 4 p.m. today.			
May	be I fell aslee	ep.				
<b>o</b> v	ocabulary					
feas		alternative	devote	peak		
ped	estrians	emissions	strict	depleted		
atte	mpted	volatile	sustain	destructive		
. Му	boss is a	a per on; it doesn't take much to make				
him	angry.					
2. Sola	r-powered ca	ars are an	to gas	oline-powered cars		
	The rules were very					
		lder, the rules were i		-		
. The	football team	n gave their	peri	formance last		
		don't think they co				
11.000						
. The	у	to drive a				
. The	y ally took the	to drive ac m longer than that.	cross the country	in a week, but it		
actu Muc	y — ally took the h of our air p	to drive a m longer than that. pollution comes from	cross the country	in a week, but it		
actu actu Muc The	y ally took ther th of our air p runners are g	to drive and the second to the	cross the country	in a week, but it		
actu actu Muc The	y ally took then th of our air p runners are g speed for lor	to drive as m longer than that. pollution comes from going fast, but I don ng.	n ear	in a week, but it		
5. The actu 6. Muc 7. The that 3. In so	yally took then th of our air p runners are g speed for lor ome states, yo	to drive and mode in longer than that. collution comes from going fast, but I doning.	n ear	in a week, but it		
5. The acturate of that to cr	ally took then the of our air p runners are g speed for lor ome states, yo coss the street	to drive and model to drive and the total than that to collution comes from going fast, but I doning.  The purpose to stop for a sto	n ear	in a week, but it		
5. They actu b. Muc 7. The that 3. In so to cr	ally took then the of our air p runners are g speed for lor ome states, yo ross the street not	to drive and modern longer than that. collution comes from going fast, but I doning.  but have to stop for and to drive	n ear	in a week, but it		
5. They actu 6. Muc 7. The that 3. In so to cr 9. It's r get t	ally took then th of our air p runners are g speed for lor ome states, yo ross the street not there in 10 ho	to drive and modern longer than that the collution comes from going fast, but I doning.  but have to stop for a to drive ours.	there in 8 hours,	in a week, but it  who are trying but I think you can		
5. They actumed the second of	ally took there ally took there in 10 horan	to drive and modern longer than that. collution comes from going fast, but I doning.  but have to stop for and to drive	there in 8 hours,	in a week, but it  who are trying but I think you can		
5. They actumed the second of	ally took there th of our air prunners are greed for lor ome states, you took the street not there in 10 ho tan s all.	to drive and modern longer than that the collution comes from going fast, but I doning.  but have to stop for a to drive purs.  several	there in 8 hours,	in a week, but it  who are trying but I think you can ect tomorrow, but		
5. They actus. 6. Muc. 7. The that 3. In so to cr. 9. It's r get to that' 1. The	ally took there th of our air p runners are g speed for lor ome states, yo coss the street not there in 10 ho can s all. local gasoline	to drive and modern longer than that the collution comes from going fast, but I doning.  The country is to drive the cours.  The country is several in the cours is several in the cours.	there in 8 hours,	in a week, but it  who are trying but I think you can ect tomorrow, but		
5. They actus. 6. Muc. 7. The that 3. In so to cr. 9. It's 1 get to that' 1. The coul	ally took there th of our air p runners are g speed for lor ome states, yo ross the street not there in 10 ho can fs all. local gasoline dn't use their	to drive and modern longer than that. collution comes from going fast, but I doning.  but have to stop for to drive ours.  several less supplies were to car.	there in 8 hours,	in a week, but it  who are trying but I think you can ect tomorrow, but Therefore, they		
5. They actus. 5. Muc. 7. The that 3. In so to cr. 9. It's r get to that' 1. The coul. 2. Cutt.	ally took there th of our air p runners are g speed for lor ome states, yo ross the street not there in 10 ho can fs all. local gasoline dn't use their	to drive and modern longer than that the collution comes from going fast, but I doning.  The country is to drive the cours.  The country is several in the cours is several in the cours.	there in 8 hours,	in a week, but it  who are trying but I think you can ect tomorrow, but Therefore, they		



## C Vocabulary Review: Odd One Out

Circle the word that doesn't fit in each group.

- 1. register, rotate, revolve, orbit
- 2. doom, disaster, motion, catastrophe
- 3. deplete, detect, decline, decrease
- 4. barren, inhospitable, secluded, infertile
- 5. daring, bold, courageous, curious
- 6. astronomy, history, erosion, geology
- 7. incredibly, extremely, dramatically, appropriately
- 8. peninsula, pesticides, erosion, drought

Cor	mprehension Check: True/False/Not Enough Information
1.	The highway construction industry is the world's largest consumer of raw materials.
2.	One of the harmful effects of automobiles is air pollution.
3.	Riding in cars is the most dangerous thing we do.
4.	More than 10 million people have been killed in motor vehicle accidents.
_ 5.	The first car was built in Germany in 1885.
_ 6.	Fifty percent of the people in the world will be in a motor vehicle accident at some time in their lives.
_ 7.	When a city is spread out over a large area, it's difficult to provide good public transportation for the people who live there.
_ 8.	In Los Angeles, it can take three hours to drive 32 kilometers.
_ 9.	Vehicles in New York City travel more slowly now than they did in 1907.
10.	The United States has the highest carbon dioxide emissions of any



### Comprehension Questions

- 1. What are some advantages of cars?
- 2. If people stopped using cars, what effect would this have on the economy?
- 3. How many people are killed each year in car and truck accidents?
- 4. What percentage of the world's people will be involved in at least one car or truck accident during their lives?
- 5. What is the connection between urban prawl and cars?
- 6. Why isn't public transportation a feasible alternative to cars in the United States?
- 7. If there were suddenly no fuel for cars, what would Los Angeles be like?
- 8. How has traveling by car in New York City changed since 1907?
- 9. What role do cars play in polluting the air?
- 10. What are some other disadvantages of cars?



#### Reading Strategy: Classifying

There are many different ways the ideas in a text can be organized. Organizing by time sequence and organizing by cause and effect are just two of the more common ways. Once you understand how a text is organized, it's easier to take notes and remember what you read.

The ideas in the text on pages 175-177 are organized by advantages and disadvantages. Use the T-chart below to make notes on the ideas in the text.

Advantages	Disadvantages	



## Vocabulary Expansion: Suffixes

You can add the suffix -ly or -ally to many adjectives to form an adverb.

Choose the correct form of the word in the chart to complete each question below.

Then answer the questions.

Adjective	Adverb
annual	annually
symbolic	symbolically
alternative	alternatively
strict	strictly
persistent	persistently
curious	curiously
former	formerly
unimaginable	unimaginably

1. What is one thing you do	?	
2. How can you represent the v	vord love	?
3. What is one	plan to putting you	r money in a bank?
4. Do you think city streets sho	uld be	for pedestrians?
5. What is one thing you have become good at it?	to practice	in order to
6. What is one place on Earth t	hat you are	about?
7. Where did you	go to school?	
8. What is one thing that it wor	uld be	for you to do?

# h

#### Grammar Review: Noun Substitutes

Read each sentence or pair of sentences and study the pronoun in **bold** print. Circle the noun or noun phrase that each pronoun replaces.

- 1. The automobile has many advantages. Above all, it offers people freedom.
- In spite of their advantages, motor vehicles have many critics because of their harmful effects on human lives and on air, water, land, and wildlife.
- Though we tend to deny it, riding in care is one of the most dangerous things we do in our daily lives.
- 4. An estimated one-third of the city's total metropolitan area and two-thirds of its downtown area are devoted to roads, parking lots, gas stations, and other automobile-related uses.
- In London, average auto speeds are about 13 kilometers per hour, and they are even lower in Paris.
- 6. Motor vehicles are the largest source of air pollution, producing a haze of smog over the world's cities. In the Unit of States, they produce at least 50 percent of the country's air pollution, even though U.S. emission standards are as strict as any in the world.
- 7. Worldwide, motor vehicles account for 13 percent of the input of the primary greenhouse gas, carbon dioxide (CO<sub>2</sub>), into the atmosphere. In the United States, they account for almost 25 percent of the country's CO<sub>2</sub> emissions.



#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: Los Angeles is a global symbol of urban sprawl. It is built around a vast network of freeways.

Models: a. Los Angeles, which is built around a vast network of freeways, is a global symbol of urban sprawl.

- Los Angeles is a global symbol of urban sprawl, built around a vast network of freeways.
- c. Built around a vast network of Treeways, Los Angeles is a global symbol of urban sprawl.



	atomobile-related businesses make up a huge industrial complex. They e responsible for 20 percent of the annual GNP.
	otor vehicles are harmful to the environment. They are responsible for 25 reent of U.S. carbon dioxide emissions.
	Writing
Th	k of different ways to complete this title: The Advantages and
	vantages of Choose one idea, and explain its
	ntage and disadvantages. Later, share your writing with a classmate.
Sa	ple titles
	Advantages and Disadvantages of Reading the Newspaper
	dvantages and Disadvantages of Living in a Foreign Country
	Advantages and Disadvantages of Having a Job You Hate



The second second second

#### Before You Read

- 1. What are some of the most common foods in your country?
- 2. What foods available today in your area weren't available 10 years ago?
- 3. What are some ways we can solve the problem of hunger in the world?

#### Context Clues

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- 1. Some types of food are eaten in just a few places, while others, like rice, are eaten widely.
- The cocoyam, which is similar to the potato, can grow in a hot climate whether it's wet or dry.
- Scientists are optimistic that people will change the foods they eat, because they have done so in the past.
- It is now possible to grow a type of Vitamin A -boosted rice that has significantly more Vitamin A than other types of rice.

As the population of the world increases, countries need to produce more and more food. At the same time, however, deserts are expanding, and millions of people are building houses on land that used to be farmland.

How can we solve a problem that seems to have no solution?

One way to increase the planet's food supply is for people to start eating different plants. There are more than 350,000 kinds of plants in the vorld. Of these, approximately 20,000 are suitable for humans to eat. But today, over 50 percent of our food supply comes from just three kinds of plants: corn, wheat, and rice. In fact, it is common in developing countries for people to depend on only one or two plants for their food. A disease or bad weather can destroy these crops, leaving people with nothing to eat.

All people, and especially children, need protein to grow and to stay healthy. Many kinds of food contain protein, but some foods are better sources of protein than others. For example, corn, wheat, and rice are only 8 to 14 percent protein. Meat and fish are 20 to 30 percent protein. Soybeans, which are an important food in China and Japan, are almost 40 percent protein. Other beans eaten widely in Latin America have about the same amount of protein as meat.

However, there are other plants that are rich in protein. People in parts of Papua–New Guinea and in Southeast Asia eat winged beans, which are over 30 percent protein. The marama bean, as rich in protein as the soybean, grows wild in the Kalahari Desert in southern Africa.

The potato, an important food in Europe and North America, will not grow in a hot climate. But the cocoyam, which is similar to the potato, is eaten in Latin America and West Africa. This versatile plant can grow in a hot climate, and it does not matter whether the climate is wet or dry.

appropriate





Scientists are now experimenting with crops of buffalo gourds in Mexico and Lebanon. This plant grows wild in Arizona's Sonora Desert, and it could grow in other dry areas as well. The seeds of this plant are up to 35 percent protein.

A few years ago, a new kind of teosinte plant was discovered in the mountains of Mexico. (*Teosinte* is pronounced "tay-oh-SIN-tay.") It is a relative of corn, but it can grow in a wetter climate than corn can. Even more important, teosinte plants can produce crops every year. They do not have to be replanted from seeds as corn does.

Nevertheless, there may be a problem with "new" plants. Will people be willing to eat them? Food is an important part of our lives, and it is often difficult to change to a new and different kind of food. However, scientists are optimistic. They know that 500 years ago

55 Europeans thought they were eating the best food in the world. Then, in the 16th century, a wide assortment of new foods, such as potatoes, tomatoes, pine pple, and chocolate, started arriving by boat from Central and South America. At first most Europeans wouldn't touch

60 these bizarre foods. In fact, many people thought these foods were poisonous. Over time, however, people accepted these foods, and now it's hard to imagine Italian food without tomatoes or a British most without potatoes. In the 1920s, George Washington Carver

65 started experimenting with the peanut, which is as rich in protein as meat. He developed many way to use the peanut as food, and today it is eaten all over the world. Perhaps in a few years teosinte and the marama bean will be as widely used as the peanut. And consider the

70 soybean, which is now the most important plant in the United States. Eighty years ago, the soybean wasn't even grown as an industrial crop!

Some people feel strongly that **genetically** engineered food could solve the world's food <u>crisis</u>.

75 Humans have been using selective breeding for millennia to improve food crops, but genetic engineering provides a way to greatly accelerate the however; in spite of that

disaster; catastrophe



process and to introduce <u>traits</u> from unrelated species. Today, many crops have been genetically <u>modified</u> to

be resistant to some types of pests, while others have been engineered to make them taste better or last longer. Available also are plants that have been genetically altered to make them more nutritious.
 Biotechnology companies call them "pre-cription"
 foods because they are supposed to solve health

problems. Examples of prescription food are Vitamin A-boosted golden rice and protein-enhanced potatoes. Other crops have been modified to make them droughtor salt-resistant, which makes it possible for them to

90 grow in poor soil.

The production of genetically modified (GM) food is highly controversial. Environmentalists worry that these crops could eventually become uncontrollable weeds or that they might breed with wild plants or other crops. Some scientists claim that genetic engineering will actually have a negative impact on crop yields and soil quality and in the end will just deprive more farmers of land on which they could grow their own food.

In addition to concerns about how GM crops might affect the environment, there is the question of whether these crops would actually have a positive effect on the global food shortage. Some people have suggested that biotech companies have started promoting GM foods as a solution to the world's food problem in order to change the negative impression that many people have of these foods. There are also many people who believe that prescription foods won't help the situation because they do not address the real cause of malnutrition,

which is **poverty**. According to Daycha Siripatra, who works for the Alternative Agriculture Network in Thailand, "If the poor had land, they would have better diets. The poor don't need Vitamin A. They need Vitamin L; that's Vitamin Land. And they need Vitamin

115 M; that's Vitamin Money. Malnutrition is because of poverty, not [a lack of] technology." characteristics changed

changed; modified high in nutrients businesses using biochemistry to make new medicines, etc. increased; raised improved

effect

a feeling about something

deal with

a	Vocabul	arv
Stationary	* OCHOU	Las y

	optimistic	genetically	selective	
	traits		pest	
1.	Changing the	color of her hair real	lly	her
	appearance.			
2.	We had to	0	ur vacation plans v	when we realized that
	we had less me	oney than we thoug	ht we had	
3.	An	person se	ees the positive sid	e of things.
4.	A horse with v	ery good	will be	expensive.
		of my brother's be		
6.	They've decide	ed to go to Costa Ric	ca	or not their
	friends are the	re.		
7.	Many more str	udents apply to Har	vard than ore accep	oted; it's a
8.	Some diseases the next.	are passed	from	one generation to
0		nte ara not	for hi	ıman consumption.
10.		, the product		world's food crisis; s highly
	controversial.			
11.	Some kind of .		got into their gard	den and ate the
	tomatoes.			
12	French is snok	en	in eastern Ca	nada

# **b** Vocabulary

	enhance impact yields deprived address poverty impression crisis
1	. Children who are of important nutrients may have serious health problems.
2	. He refused to his financial problems until finally he was forced to.
3	. To buy most medicines, you need a from a doctor.
4	didn't exist 50 years ago.
5	. What was your of the speech? Did you like it?
6	. My grandfather had a big on my life.
7	. Apples are; sugar is not.
8	. If you can't get up on the horse, I can give you a
9	. It's difficult to believe that there can be so much in such a rich country.
10	. The loss of a year's food supply was a for the country
11	. Lack of rain can have a tremendous impact on crop
12	. What can you put on a potato to the flavor?

## C Vocabulary Review: Synonyms

Match the synon	nyms.		
1. ann	***	a. build	
2. ver		b. choice	
3. ban		c. fascinate	
4. con	struct	d. dispel	
5. haz	v	e. forbid	
6. alte	-	f. collect	
7. cap		g. volatile	
8. get		h. yearly	
9. con		i. unclear	
10. fea		j. many-sided	
		k. within	
		I. possible	
d Compre		Check: Multiple Choice	
		food supply comes from	kinds of food.
a. 350,000			
b. 20,000			
c. 3			
2. Winged be			
a. from La		ca as soybeans	
		ent protein	
3. The potate			
	reather cro		."
	to the coco	T	¥ 131

c. originally from Europe

4.	The cocoyam
	a. can grow in a hot climate
	b. is an important food in North America
	c. doesn't grow in wet climates
5.	Unlike corn, the teosinte plant
	a. prefers a dry climate
	b. produces a crop every year
	c. has to be planted every year
6.	Scientists are optimistic that people might be willing to eat new foods,
	because
	a. they already eat roughly 20,000 different kinds of food
	b. they have done it in the past
	c. they like to change what they eat often
7.	When Europeans first saw tomatoes,
	a. they wanted to try them immediately
	b. they knew they were safe to eat
	c. they thought they were poisonous
8.	Selective breeding
	a. has been taking place for a long time
	b. is a new thing
	c. is impossible
9.	Prescription foods are
	a. genetically altered to be more nutritions
	b. enhanced to taste better
	c. modified to grow in any type of soil
10.	Some people say that GM food won't solve the food crisis because
	a. it doesn't provide the right nutrients
	b. it doesn't address the real cause
	c. the food crisis is too serious

## e Comprehension Questions

- Roughly how many kinds of plants are there on Earth? How many of those can people safely eat?
- 2. Why do you think so much of our food supply comes from just three kinds of plants?
- 3. What foods are high in protein?
- 4. What information about soybeans does the text on pages 186–188 provide?
- 5. How is the cocoyam different from the potato?
- 6. What is the teosinte plant?
- 7. In the 16th century, how did Europeans react to new foods introduced from Central and South America?
- 8. What food did George Washington Carver get people to try? How?
- 9. What are genetically modified foods?
- 10. Why do some people oppose genetically modified foods?

# f Read

#### Reading Strategy: Identifying Supporting Ideas

Supporting ideas give information to explain a main idea.

For each main idea below, find supporting ideas in the text on pages 186–188. Write the information in the chart.

Main idea	Supporting ideas
Humans make poor use of the plants on Earth.	
It's possible for people to change their eating habits.	
Food can be genetically modified for many different purposes.	
Some people believe that GM crops can be harmful to the environment.	

#### Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

Verb	Noun	Adjective	Adverb
select	selection	selective	selectively
prescribe	prescription	prescriptive	
enhance	enhancement	enhanced	
deprive	deprivation	deprived	
alter	alteration	aftered	
	nutrient	nutritious	nutritiously
	optimism	optimistic	optimistically
resist	resistance	resistant	
modify	modification	modified	
promote	promotion	promoted	

- 1. Do you watch television \_\_\_\_\_\_, or do you just watch whatever is on?
- 2. Doctors can \_\_\_\_\_ medicine, but nurses can't.
- 3. Scientists use chemicals to \_\_\_\_\_\_ the flavor of many packaged foods.
- 4. Water \_\_\_\_\_ will cause crops to do poorly or die.
- 5. If your pants are too long, you can take them to a tailor for
- \_\_\_\_\_ than fresh fruit. 6. Ice cream is less \_\_
- 7. I like to be around \_\_\_\_\_\_ people because their is contagious.
- \_\_to the flu than unhealthy 8. Healthy people are more people.
- 9. They \_\_\_\_\_ the plan by removing several buildings.
  10. The \_\_\_\_\_ of cigarette smoking on television is illegal.



## Grammar Review: Articles

Put an article in each blank if one is necessary.

Nevertheless, there may be (1) problem with "new" plants. Will
people be willing to eat them? Food is (2) important part of our lives,
and it is often difficult to change to (3) new and different kind of food.
However, scientists are optimistic. They know that 500 years ago Europeans
thought they were eating (4) best food in the world. Then, in (5)
16th century, a wide assortment of (6) new foods, such as (7)
potatoes, tomatoes, pineapple, and chocolate, started arriving by boat from
(8) Central and South America. At first, most Europeans wouldn't
touch these bizarre foods. In fact, many people thought these foods were
poisonous. Over time, however, people accepted these foods, and now it's hard
to imagine (9) Italian food without tomators or (10) British meal
without potatoes. In the 1920s, George Washington Carver started
experimenting with (11) peanut, which is as rich in protein as meat. He
developed many ways to use (12) peanut as food, and today it is eaten
all over the world. Perhaps in (13) few years teosinte and the marama
bean will be as widely used as (14) peanul

# i

#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 to 3 following the models.

- Example: Soybeans are an important food in China and Japan. They are almost 40 percent protein.
- Models: a. Soybeans, which are an important food in China and Japan, are almost 40 percent protein.
  - Soybeans, an important food in China and Japan, are almost 40 percent protein.
  - c. An important food in China and Japan, soybeans are almost 40 percent protein.



#### Writing

What is your opinion of genetically modified food? Write your opinion and give at least three reasons to support your opinion. Later, share your writing with your classmates.

# Video Highlights

## a Before You Watch

- List what you think are the five most important inventions of all time. In a group, compare your lists. Why did you choose the inventions you did? Is e-mail on your list? Why or why not?
- You are going to watch a video about the dangers of e-mail. Match the words and expressions with their definitions.
  - a. spam \_\_\_\_\_ characteristics that make some
    b. colleagues other kind of communication
    similar to speaking
  - c. slang
    d. stream of a saying that contains truths or helpful information
  - e. analyses thoughts spoken aloud or written as they come to mind, without reflection
  - g. the final blow studies done to find facts and solutions to problems
  - h. adage \_\_\_\_\_ unwanted e-mail messages that are sent to many people as a type of junk mail
    - the list in a line of problems that makes something fail
    - \_\_\_\_ co-workers
    - \_\_\_\_\_ informal language; street language

## **b** As You Watch

There is one mistake in each of the quotes below. Watch the video, and correct the mistakes.

- "When e-mail came on the scene, its promile, like so many other technological innovations, was that it would save money."
- "It was bad enough when we were just dealing with the telephone."



- 3. "It seems we're writing more and maybe enjoying it less."
- "Research has shown that actual analyses of the messages of email do document that it does have many speech-like features that we, in fact, in the past, used to associate with conversation."
- 5. "... the use of slang and lots of run-on sentences with '...' in between them, almost like a stream of consciousness, instead of carefully formed syntactically beautiful sentences with question marks at the end of them."
- 6. "If e-mail has given rise to a new form of communication, it may also be the final blow for another form: discussion."
- 7. "... that old adage about waiting before you speak—well, who has time to think when you're communicating?"

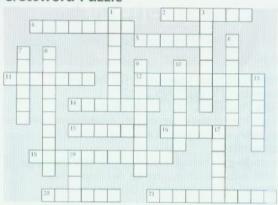
## C After You Watch

- 1. The presenter in the video never states his opinion explicitly. Which statement best summarizes his opinion?
  - a. E-mail is an excellent invention, making it easier to communicate.
  - b. E-mail has some disadvantages, but overall it makes life better.
  - c. E-mail has made it harder, not easier, to communicate well.
- Think about the video and your own experiences with e-mail. Write some advantages and disadvantages of e-mail in the chart below. Discuss the subject with a classmate.

Advantages of e-mail	Disadvantages of e-mail
	- man 5

# **Activity Page**

#### Crossword Puzzle



#### Across

- 2. \_\_\_\_\_ is what keeps people's feet on the ground.
- 4. The code was too difficult to \_
- 5. My brother likes to \_\_\_\_\_ across the sofa so that there is no room for me to sit down.
- 11. Jim works in an office, but has a \_\_\_\_\_ about becoming a movie star.
- 12. a way to describe someone who is always happy
- 14. Many people believe that problems such as malnutrition are the result of \_\_\_\_\_.
- 15. movement
- 16. reproduce
- The belief that murder is wrong is to most cultures.
- 20. For some people, a fast, expensive car is a \_\_\_\_\_\_ of power.
- Driving on the sidewalk is dangerous because you are likely to hit a \_\_\_\_\_\_.

#### Down

- With family living all around the world, it's rarely \_\_\_\_\_\_ to gather everyone together.
- Their relationship is very \_\_\_\_\_ as they are always fighting and making up again.
- 6. The detectives might find more clues with \_\_\_\_\_ investigation.
- Dark hair, freckles, and musical talent are all \_\_\_\_\_ that you might inherit from your parents.
- Fruits and vegetables are important to a \_\_\_\_\_\_ diet.
- 9. lucky
- 10. weird, strange
- A new virus that is difficult to trest could cause an international health
- Scientists use special machines to invisible gases.
- Mount Vesuvius brought \_\_\_\_ to the people of Pompeii.



# **Dictionary Page**

#### **Using Prefixes**

 Look up biotechnology in the dictionary. Look at other words that begin with bio-.

**bi-o-chem-is-try** / batoo kemtstri/ n. [U] the science of the chemistry of living things

bi-og-ra-phy /bai'ugrəfi n. [C;U] -phies the history of a person's life: He read a biography of a baseball hero. -n. biographer; -adj. bio raphical / baiə'græfikəl/; -adv. biographically.

bi-o-tech-no-lo-gy /ba motek 'naladʒi / n. [U] the business of using biochemistry to develop new medicines and other advances to improve health: Biotechnology develops new drugs to fight cancer and AIDS.

- 2. How are the meanings of the words alike? What does the prefix bio- mean?
- 3. Complete the chart, using your dictionary.

Word	Related word(s)	Prefix	Meaning
biotechnology	biodegradable biography biology bionic	bio-	of living things
polygon		poly-	
geography		geo-	

# Health and Well-Being

unit 5

The first wealth is health.
—Ralph Waldo Emerson



pencer Grant/Photo El

lesson

# Up in Smoke



#### Before You Read

- 1. Why do people smoke?
- 2. What are some of the negative effects of smoking?
- 3. Do you think people should be permitted to smoke in public places? Why or why not?

#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- Native Americans used the tobacco plant in different ways.
   Some people rubbed tobacco leaves on their bodies.
- 2. The use of tobacco in cigarettes didn't become popular until late in the 19th century. Thanks to an effective advertising campaign in the 1880s, cigarette smoking became widespread.
- 3. In the 1960s, the first warning **labels** appeared on cigarette packages.
- The children of parents who smoke are more likely to develop respiratory problems than are children who grow up in a smoke-free environment.

# 1 Up in Smoke

0

Five hundred years ago, you wouldn't have seen anyone growing or smoking tobacco in Europe, the Middle East, Africa, or Asia. Today, however, tobacco is grown in roughly 120 countries, and more than 1 billion people around the world smoke tobacco.

Five hundred years ago, the tobacco plant grew only in the Americas. It was used for a <u>variety</u> of purposes, and it was highly valued. Many Native Americans believed that the tobacco plant had medicinal properties.

10 They smoked and chewed tobacco and rub ed tobacco leaves on their bodies. Some people believed that the leaves of the tobacco plant helped to reduce pain and heal wounds and burns. Others thought to acco leaves could cure toothaches. In many parts of the Americas,

15 smoking tobacco was also an important part of religious rites and ceremonies. People believed that tobacco made it possible to communicate with the spirits.

assortment; range

acts performed in a particular way determined by



When the first Spanish explorers arrived in the Americas late in the 15th century, they saw Native

20 Americans "smoke drinking," as they called smoking, and they eagerly tried it. When the first Portuguese explorers arrived in the Americas, they encountered Native Americans who used tobacco as snuff rather than smoking it. Snuff is basically finely ground tobacco,

25 which is <u>inhaled</u> through the nose. The Portuguese explorers picked up the snuff habit and exported it to Portugal and much of the rest of the world. The Portuguese were also the first people to <u>cultivate</u> the tobacco plant outside of the America. The French

ambassador to Portugal, Jean Nicot de Villemain, called tobacco a cure-all for many illnesses, and in 1560 he sent samples of the tobacco plant to France, where it was given the name *Nicotiana* in his **hono**.

Tobacco was probably taken to England by Spanish and English explorers, who had learned to smoke it in pipes rather than use it as snuff. People in England were at first frightened by the sight of smoke coming out of a person's mouth. The first smokers there were followed and stared at. Before long, however, pipe smoking was a popular activity.

Not everyone in Europe and Asia welcomed the arrival of tobacco and the smoking habit. In Russia, possession of tobacco was forbidden. In Turkey and India, smokers faced the death penalty. The Catholic

45 Pope banned its use in the early 1600s. Both the use and the cultivation of tobacco were banned in Japan in 1609 and in China in 1612. Despite this, smoking gained in popularity. The **failure** of the bans was due in large part to the fact that governments could make money from

50 the sale of tobacco. For example, King James I of England strongly opposed the use of tobacco, but he often needed money, and taxing imported tobacco was an easy way for him to get it.

The use of tobacco in cigarettes oldn't become popular until late in the 19th century. Thanks to an effective advertising campaign in the 1880s, cigarette met

breathed in

grow

recognition with appreciation

smoking became widespread. Back then, most people thought that cigarettes helped to relieve tension; they didn't believe that cigarettes were harmful to a person's

- 60 health. In the 20th century, however, doctor began seeing an increasing number of cases of lung cancer, and in 1950 researchers in England reported the first evidence showing a link between smoking and lung cancer. Fourteen years later, in 1964, the U.S. Surgeon
- 65 General announced that smoking causes lung cancer. Soon after that, the first warning labels appeared on cigarette packages, and cigarette advertisements were banned from television and radio in England and the United States. The tobacco industry responded by

70 paying filmmakers to show actors and actresses smoking in their movies. Fearing that the health warnings would encourage people to stop smoking, cigarette makers also increased the amount of nicotine in cigarettes to make them more addictive.

Today, we know that there are about 4,000 different chemicals in the smoke of an average cigar ite. Some of these chemicals are toxic, and at least 60 of them cause cancer. Nicotine, for example, is highly addictive and poisonous. We know that smoking is the leading cause of lung diseases, and it has also been linked to heart disease and other kinds of cancer. There is evidence that smokers have more trouble healing after surgery, and they are at greater risk for post-op complications.

In addition to harming smokers, cigarette smoke can
have a negative effect on the health of non-mokers
occupying the same environment. Researchers think
that each year secondhand smoke may be responsible
for about 3,000 lung cancer deaths and 35,000 cases of
heart disease among nonsmoking adults. And not only
adults are affected by inhaling secondhand smoke. The
children of parents who smoke are more likely to
develop respiratory problems than are children who
grow up in a smoke-free environment.

While people have been opposed to smoking as far back as the 1600s, there is now an increasing amount of

poisonous

primary; main

after an operation; after surgery

problems; difficulties

being in

used before by someone else pressure on smokers to kick the habit. In 1993, the state of Vermont in the United States banned smoking in indoor places; it was the first state to do so. Since then, many countries have banned smoking in public places.

100 And in 2004, the country of Bhutan became the first country to ban the sale of all tobacco products. The effectiveness of these bans varies from country to country. In some places, the bans are virtually ignored, while in others, such as the United States, the bans are 105 taken very seriously.

Why do people smoke when they know it is bad for their health? According to many researchers, smoking is one of the most difficult habits to break. Mark Twain, the American writer, once said, "To quit smoking is the assest thing I ever did; I ought to know because I've done it hundreds of times."

## **a** Vocabulary

	variety occupied lung	rub wound rites			
1.				my hands together to	
2.				of vegetables, not just	
	the few we ca	n	here.		
3.	Every religion has different burial				
4.		damage ca	n cause eriou	us breathing problems.	
				es information about the	
	ingredients in	the food.		."	
6.	Tom seems ur person.	nfriendly, but he's		a kind and generous	
7.	When you	Vhen you, your cliest should expand.			
8.		lassroom was different room.		by another class, so we	

		t \$10,000 plus		•
b	Vocabu	lary		
	honor	respiratory failure post-op	widespread	secondhand
1.	On her wal	lk in the woods, she		a large bear.
2.	The young clothes.	est child in a family	often has to wear	
3.	Which country is the producer of rice?			cer of rice?
4. The first airplane that the Wright brothers built was a				as a
It couldn't get off the ground.				
5.	It is a great to be given an award.			ward.
6.	6. A person with problems has tro		s trouble breathing.	
7.	A week aft examination		to his doctor for a	The state of the s
8.	The only _		we had on our trip	was not being able to
	find our ho			
	reach of ch	ildren.		must be kept out of
0.	Destruction left undam		15	; few houses were

#### Vocabulary Review: Antonyms Match the antonyms. 1. deprive a. degrade 2. boost b. provide 3. enhance c. wealth 4. volatile d. foreign 5. poverty e. enter 6. discord f. unimportant 7. native g. lower 8. vital h. accurate 9. potential i. agreement 10. withdraw j. calm k. achieve 1. impossible Comprehension Check: True/False/Not Enough Information 1. The tobacco plant is native to Asia. 2. Some Native Americans used tobacco in their religious rites. 3. The Spanish explorers learned to smoke tobacco, while the Portuguese used tobacco as snuff. 4. Tobacco wasn't banned until the 1900s. 5. People have always known that smoking is bad for their health. 6. In the early 20th century, there was already evidence of a link between smoking and lung cancer. 7. The tobacco industry can no longer pay filmmakers to show people smoking in their movies 8. You don't have to smoke yourself to be affected by cigarette smoke. 9. Parents who smoke are more likely to have children who smoke.

10. The children of smokers are more likely to have respiratory

problems than are the children of nonsmokers.

## e Comprehension Questions

- 1. What are some of the different ways in which people have used the tobacco plant?
- 2. What is snuff?
- 3. Why did the Spanish and Portuguese explorers use tobacco differently?
- 4. Where was smoking banned in the 17th century?
- 5. Why didn't governments enforce the smoking ban in the 17th century?
- 6. How did the U.S. government try to discourage smoking in the 1960s?
- 7. What did the tobacco industry do to encour ge people to smoke?
- 8. What is secondhand smoke?
- 9. What effect can smoking have on nonsmokers?
- 10. In addition to causing lung cancer, what other effects can smoking have on a person's health?
- 11. What has the government of Bhutan done to discourage people from smoking?

# f Reading Strategy: Distinguishing Facts and Opinions

Identify each statement below as a fact or an opinion. Write Fact or Opinion on the line.

1. Today, tobacco is grown in roughly 120 countries.
2. Some people think tobacco can cure toothaches.
3. Smoking causes lung cancer.
4. People should quit smoking.
5. It's important for governments to enforce smoking bans.
6. Some of the chemicals in tobacco are toxic.
7. If you have children, you shouldn't smoke.
8. If you smoke at home, your children are more likely to develop breathing problems.

# **g** Vocabulary Expansion: The Prefix mis-

The prefix *mis*- can be added to the beginning of some words to make the meaning negative.

Choose verbs from the list below to complete the sentences that follow. Make any necessary changes to the tense and form of the erbs. mismanage miscalculates m sled misread misplace misbehave misunderstand misprinted 1. How often do you \_\_\_\_\_ \_\_\_ your keys? a lot when you were a child? 2. Did you \_\_\_\_\_ 3. If your bank \_\_\_\_\_ \_ your account balance, what would you do? 4. What is likely to happen to people who \_\_\_\_\_ their businesses? Many arguments start simply because people \_\_\_\_ 6. She him by saying she enjoyed cooking when she didn't. 7. The newspaper \_\_\_\_\_\_ the name of the company but corrected its mistake the next day. 8. I thought it was going to rain today, but must have \_ the weather forecast in the newspaper. Grammar Review: Prepositions Write the correct preposition on the line. The use of tobacco (1) \_\_\_\_\_ cigarettes didn't become popular until late in the 19th century. Thanks (2) \_\_\_\_\_ an effective advertising campaign (3) \_\_\_\_\_ the 1880s, cigarette smoling became widespread. Back then, most people thought that cigarettes lelped to relieve tension; they didn't believe that cigarettes were harmful (4) \_\_\_\_\_ a person's health.

(5) \_\_\_\_\_ the 20th century, however, doctors began seeing an increasing number (6) \_\_\_\_\_ cases of lung cancer, and (7) \_\_\_\_ 1950 researchers in England reported the first evidence showing a link between smoking and

lung ca	ncer. Fourteen years later, (8) 1964, the U.S. Surgeon				
	l announced that smoking causes lung cancer. Soon after that, the				
	cig rette packages, and cigarette advertisements were banned (10) television and radio (11) England and the United States. The tobacco industry responded				
-					
	paying filmmakers to show actors and actresses smoking				
	their movies. Fearing that the health warnings would				
	age people to stop smoking, cigarette makers also increased the				
amoun	t of nicotine (14) cigarettes to make them more addictive.				
i Se					
Sei	ntence Combining				
Read the e	xample and the model combinations below. Then rewrite sentences 1 and 2				
following :	the models.				
Example:	Smoking is unhealthy. It also costs governments billions of dollars in health-care costs.				
Models:	<ul> <li>a. Smoking is unhealthy, and it costs governments billions of dollars in health-care costs.</li> </ul>				
	<ul> <li>Smoking not only is unhealthy, but also costs governments billions of dollars in health-care costs.</li> </ul>				
	<ul> <li>Not only is smoking unhealthy; it also costs governments billions of dollars in health-care costs.</li> </ul>				
1. Smoki	ng is bad for the smoker. It also is harmful to the people nearby.				
b					
С					
	ildren of smokers are more likely to have health problems. They also espiratory problems more often.				
a					
b					
C					
j Wr	riting				
A .d	an ante ann ha vann manuarful Waite - servenius au talaviai				
	ements can be very powerful. Write a magazine or television				
	ment against smoking. Try to make it interesting to young adults.				
when yo	u finish, share your ad with your classmates and discuss it.				

\*

lesson

2

# Memory



danson/Bath Imanes

#### Before You Read

- 1. Do you think you have a good memory? Why or why not?
- 2. What things do you often forget? What things are easy for you to remember?
- 3. What is your oldest memory?

#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- 1. Scientists are still trying to figure out exactly what memory is.
- We do know that a memory is not just one thing stored somewhere in the brain. Instead, a memory is made up of bits and pieces of information stored all over the brain.
- Ask questions when you are trying to learn new information to be certain that you understand it accurately.
- If you come across a new word, make a picture in your mind of the word and the thing it represents.

## 2

## Memory



When you say that someone has a good memory, what exactly do you mean? Are you saying that the person has fast <u>recall</u> or that she or he <u>absorbs</u> information quickly? Or maybe you just mean that the

- 5 person remembers a lot about her or his childhood. The truth is that it is difficult to say exactly what memory is. Even scientists who have been studying memory for decades say that they are still trying to figure out exactly what it is. We do know that a particular memory
- is not just one thing stored somewhere in the brain. Instead, a memory is made up of <u>bits</u> and pieces of information stored all over the brain. Perhaps, then the best way to describe memory is to say that it is a process—a process of recording, storing, and retrieving
- 15 information. It is this process that allows us to <u>retain</u> memories of past events as well as to remember an unlimited number of facts.

In order for a piece of information to be remembered, it must first be recorded in the brain. And

ability to call back something remembered takes in

specific

small amounts

bringing back keep



20 to record something in the brain, you have to really notice it or register it, using one or more of your five senses—sight, hearing, touch, taste, and smell. Practice and repetition can then help to strengthen the pieces that make up your memory of that information.

Memory can be negatively affected by number of things. Poor nutrition and depression can affect a person's ability to retain information. Excessive alcohol use can also impair memory and cause per manent damage to the brain over the long term. A vision or hearing impairment may affect a person's ability to notice certain things, thus making it harder to record

information in the brain.

When people talk about memory, they often refer to short-term memory and long-term memory. If you want to call a store or an office that you don't call often, you look in the telephone book for the number. You dial the number, and then you forget it! You use your short-term memory to remember the number. Your short-term memory lasts about 30 seconds, or half a nanute.

40 However, you don't need to look in the telephone book for your best friend's number, because you already know it. This number is in your long-term memory, which stores information about things you have learned and experienced through the years.

Why do you forget things sometimes? The major reason for forgetting something is that you did not learn it well enough in the beginning. For example, if you meet some new people and right away forget their names, it is because you did not register the names

50 when you heard them.

You can help yourself to remember better. Here are some ideas.

- Move information from your short-term memory to your long-term memory. You can do this by practicing the new information. Say if out loud to yourself. Think about it.
- After you learn something, study it as ain and again. Learn it more than you need to This process is called overlearning. For example, when you

feelings of great sadness

for that reason

- learn new words, practice using them in sentences. Don't try to memorize words only from a list.
- Make sure that you understand new information.
   It is difficult to remember something that you don't comprehend. Ask questions when you are trying to learn new information to be certain that you understand it accurately.
- 4. Get rid of any distractions in the room where you are studying. Do not listen to music or watch television while you are studying. You will remember better if you concentrate on just one thing at a time.
- Try to connect new information with something that you already know. For example, when you learn the name of a new kind of food, think of a similar kind of food that you are already familiar with.
- 6. Divide new information into several sections (about five or six). Learn one section at a time stopping for a few minutes between sections. Don't sit down and try to learn a very large amount of new information all at once.
- 7. Use visualization techniques when you are learning new information. For example, if you come across a new word, make a picture in your mind of the word and the thing it represents. This mental picture will help you remember that word the next time you see or hear it.
- 8. Think of word clues to help you remember information. One helpful kind of word clue is an acronym. An acronym is an expression formed from the first letters of a group of words. For example, many American schoolcheldren learn the names of the Great Lakes in North America by remembering the word homes. Homes is an acronym that comes from the names of the Great Lakes: Huron, Ontario, Michigan, Erie, Superior.
- Relax when you study! Try to enjoy yourself. You are learning new things every minute. You will remember better if you are happy and relaxed.

## **a** Vocabulary

	recall bits depression	absorb retrieve excessive	retain	repetition		
			water, but a piece of			
2.	If you eat an	ou eat an amount of food, you will gain weight.				
3.	3. I wonder why there are of paper all over the floor.					
4.	No other shirts	would please hin shirt.	n; he wanted only tha	nt		
5.	The company tried to all of its employees, but it					
6.	Lack of interest	in things and fee	ling of sadness are s	igns of		
7.	. If you throw a ball to my dog, he will run after it and it.					
8.	3. After the fifth, he was able to say the poem without looking at his book.					
9.	. I can't if I'm supposed to be there at 3 or 4.					
10.	If you have		vision, you have to	wear glasses when		
	you drive a car.					
11.	Spending a lot	of time in front of	a computer could ha	arm your		
12.	How do I	t	he area of a triangle?			
b	Vocabulary					
	dial all at once mental	comprehend visualize certain		excessive came across distracting		
1.	So many things happened to do first.		that we didn't know what			
			the gradua	the graduation ceremony.		

Could you please stop talk	ing for a minute. You're	me.
It is hard for me to	why anyone wou	ld want to live
in Antarctica for a whole y	ear.	
. She's not sure she'll be her	e today, but she's	she'll
get here tomorrow.		
Can you	the house you would like to	o live in
someday?		
What do you do when you	the wrot	ig telephone
number?		
Do you have a good	for remembering	ig phone
numbers?		
I an	interesting article while I was d	oing research on
the Internet.	0	
	activities.	
Challes and writing are	to the exam question	, she
	to the committee	
got an A.		
Vocabulary Review:  Match the synonyms.	Synonyms	
1. suitable	a. hopeful	
2. attempt	b. exceptionally	
3. optimistic	c. appropriate	
4. primarily	d. fair	
5. diverse	e. try	
6. traits	f. think	
7. impact	g. varied	
8. extraordinarily	h. sharp	
9. impartial	i. affect	
10. ponder	j. mainly	
F	k. achieve	
	1. characteristics	

### Comprehension Check: Multiple Choice

Circle the letter of the be	est answer.
-----------------------------	-------------

- A memory is stored in your brain \_\_\_
  - a. in one place
  - b. in many different places
  - c. in a couple of places
- 2. To record something in your memory, you have to first \_\_\_
  - a. retrieve it
  - b. retain it
  - c. register it
- 3. Repetition can help to \_\_\_\_\_ a memory
  - a. lose
  - b. impair
  - c. strengthen
- 4. \_\_\_\_ can impair memory.
  - a. Drinking alcohol
  - b. Using the telephone
  - c. Repeating things
- 5. Short-term memory lasts about \_\_\_\_\_.
  - a. 3 seconds
  - b. 30 seconds
  - c. half an hour
- 6. When you learn something, you move it into \_\_\_\_\_.
  - a. short-term memory
  - b. long-term memory
  - c. both short-term and long-term memory
- 7. Saying something out loud helps you \_\_\_\_\_.
  - a. hold it in short-term memory
  - b. remember it
  - c. retrieve it
- 8. Distractions can \_\_\_
  - a. prevent you from concentrating
  - b. help you retain information
  - c. help you visualize

- 9. It's not a good idea to try to learn a lot of new things
  - a. in sections
  - b. over time
  - c. all at once
- 10. When you visualize something, you \_\_\_\_\_
  - a. look for it
  - b. make a mental picture of it
  - c. ask questions to make certain you understood correctly

#### e Comprehension Questions

- 1. Where are memories stored in the brain?
- 2. What are memories made up of?
- 3. What are the three steps in the memory process?
- 4. What are some things that can harm memory?
- 5. What is the difference between short-term memory and long-term memory?
- 6. What is overlearning?
- 7. What shouldn't you do when you study?
- 8. How can an acronym help you retrieve information?



### Reading Strategy: Identifying Cause and Effect

Complete the chart below with the missing effects.

Cause	Effect
Practice and repetition	ty that the total the partition perfect of
Depression and malnutrition	What are the three engages in the town
a Diesaue	
Overlearning information	to the president of the Continues of the
Distractions in the room where you are studying	
Making a mental picture of a	
new word	



### Vocabulary Expansion: Word Forms

Choose the right word form for each sentence below.

	Verb	Noun	Adjective	Adverb
١.	visualize	visualization	visual	visually
2.	distract	distraction	distracted	distractedly
3.	comprehend	comprehension	comprehensive	comprehensively
1.	absorb	absorption	absorbent	
5.	retrieve	retrieval		
ó.		excess	excessive	excessively
7.	impair	impairment	impaired	
3.	repeat	repetition	repetitive repetitious	repetitively
9.	depress	depression	depressed	

1.	Can you	yourself flying an airplane?	
2.	Each time the telephone ring	gs, it everyone.	
3.	Youro	f the language has increased tremendously.	
4.	Young children	new information at an incredible rat	
5.	They used a fishing pole to of the lake.	her ring from the bottom	
6.	I sometimes get a headache talks	when I'm with my best friend because she	
7.	Drinking alcohol can	a person's ability to drive.	
8.	His speech was too	; he just kept saying the same	
	thing over and over again.		
9	The lack of sunlight in the v	vinter seems to him.	

### h

#### Grammar Review: Noun Substitutes

Read each sentence or pair of sentences and study the pronoun in **bold** print. Circle the noun or noun phrase that each pronoun replaces

- 1. Practice the new information. Say it out loud to yourself.
- This process is called overlearning. For example, when you learn new words, practice using them in sentences.
- It is difficult to remember something that you don't comprehend. Ask
  questions when you are trying to learn new information to be certain that
  you understand it accurately.
- If you come across a new word, make a picture in your mind of the word and the thing it represents.
- 5. The major reason for forgetting something is that you did not learn it well enough in the beginning. For example, if you meet some new people and right away forget their names, it is because you did not register the names when you heard them.
- You don't need to look in the telephone book for your best friend's number, because you already know it. This number is in your long-term memory.



#### Sentence Combining

Read the example and the model combinations below. Then rewrite sentences 1 and 2 following the models.

Example: Memory is difficult to define. It isn't just one thing.

Models: a. Memory is difficult to define because it isn't just one thing.

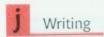
- b. Memory, which isn't just one thing is difficult to define.
- c. Because memory isn't just one thing, it's difficult to define.
- Excessive alcohol use is bad for your health. It can cause permanent brain damage.

a.		
Ь.		

2. Short-term memory is very useful. It holds information while you are using it.

a. \_\_\_\_\_\_b

b. \_\_\_\_\_



Think about one of your best memories. Describe it in a paragraph for your classmates to read.

3

### Obesity: The New Epidemic



## The second second

#### Before You Read

- 1. What were some of the most serious health problems in the past?
- 2. What are some of the most serious health problems today?
- 3. What connection can you make between the photograph and the topic of health problems?

#### **Context Clues**

The words in **bold** print below are from this lesson. Use context clues to guess what each word means.

- The most serious health problem in the world used to be infectious diseases such as typhoid fever and influenza (flu).
- One cause of the problem is the sedentary livestyle that many people in the 21st century are leading. Getting around by car and working at a desk don't demand much physical activity.
- The fast-food industry spends over \$33 billion a year to attract customers. Agencies created to educate people about healthy eating have only a fraction of that amount of money.

### 3 Obesity: The New Epidemic



**ep-i-dem-ic** / <code>.epə'demik/ n.</code> a disease that spreads quickly among many people: There are <n.pl.> epidem s of influenza nearly every winter.

The most serious health problem in the world used to be infectious diseases such as typhoid fever, influenza (flu), and bubonic plague. In the 14th century, for example, an epidemic of bubonic plague killed roughly one-third of the population of Asia and about half of the population of Europe. A flu epidemic in 1918 killed millions of people around the world. Today, however, vaccines and antibiotics have prevented the spread of many serious diseases. In fact, in many parts of the world today, infectious diseases are no longer considered to be the most serious health problem. According to Dr. Julie Gerberding, director of the Centers for Disease Control and Prevention (CDC) in

the United States, the number one health problem in the

15 United States is the new epidemic of obesity.



What does it mean to be obese? Most doctors and researchers use the body mass index, or BMI, to determine whether someone is overweight or obese. The BMI equals a person's weight in kilograms divided 20 by the square of the person's height in meters. A normal BMI is between 18.5 and 24.9. A person with a body mass index of 25.0 to 29.9 is considered to be overweight, while a person with a BMI of 30 or above is said to be obese. It is estimated that roughly 51 percent 25 of the adults in the United States and Canada are either overweight or obese. Worldwide, an estimated 22 million children under the age of five are believed to be overweight.

What is causing the epidemic of obesity? One 30 obvious contributing factor is the sedentary lifestyle that many people in the 21st century are leading. Getting around by car and working at a desk don't demand much physical activity. "Physical activity used to be what people had to do to survive " says Dr. David 35 Katz, associate clinical professor of public health at Yale University. "Now we speak of it as something we have to work into our day."

A second cause of the obesity epid mic is an increase in the availability and consumption of junk food. The 40 Centers for Disease Control and Prevention defines junk foods as "foods which provide calories primarily through fats or added sugars and have minimal amounts of vitamins and minerals." Studies have shown that people are consuming substantially more 45 calories daily than they used to, and they are consuming many of those calories outside of regular meals. In other words, people are snacking, or eating between meals, a lot more than they used to, and those snacks often consist of junk food.

The **skyrocketing** popularity of faut-food restaurants over the past 30 years has also contributed to the obesity epidemic. The goal of most fast-food restaurants is to make high profits by producing meals cheaply and efficiently, with little concern for the nutritional content 55 of the food. Consequently, much of the food served in

an indicator

units of energy produced by food very small a lot

increasing rapidly

as a result

fast-food restaurants is high in saturated fairs, sodium, and sugar. The "great taste" of the food cones from artificial flavorings created in science laboratories. For example, roughly 50 artificial ingredients are used to make the strawberry milkshake sold in one popular fast-food restaurant. High-quality meat has been replaced by lower-quality meat that is full of preservatives to make it taste good. While the nutritional content of much fast food is declining, the serving sizes have been getting larger, encouraging people to consume more calories.

A study in 2004 provided the first scientific evidence of a link between eating fast food regularly and obesity and obesity-related diseases. The study followed 3,000 young people between the ages of 18 and 30 for 15 years. Researchers found that people who are a fast-food meal at least twice a week were 10 pounds or more heavier than those who ate fast food less than once a week. According to Mark Pereira, who worked on the study, "People really should be taking a hand look at their diet. One simple change that people could make is reducing their frequency of going to fast-food restaurants and eating more at home."

The fast-food industry spends over \$33 billion a year to attract customers to its restaurants. Restaurants <u>lure</u> children by offering toys, playgrounds, entertainment, and a party atmosphere. Adults are attracted by the fast service and the predictability of both the food and the environment. Agencies created to educate people about healthy eating have only a **fraction** of that amount of money with which to get their message across.

In 2001, the U.S. Surgeon General reported that obesity can be linked to roughly 300,000 deaths and \$117 billion in health-care costs a year. Among the .

90 health problems caused by obesity are respiratory difficulties, deterioration of bones and murcles, high blood pressure, and skin problems. The more lifethreatening problems include heart disease, type 2 diabetes, and certain types of cancer. Clearly, something must be done to stop this new epidemic.

attract with promises; entice



	infected			
	obesity	lure index regularly	flavor determined junk	director overweight provide
1.	A computer p	rogrammer has a $\_$		_ job, but a farmer
	does not.			
	What docume another count			when you enter
3.	What is the bo	ody mass	?	
4.	The head of an	n agency is sometin	nes called its	
5.	If you don't cl	ean a cut, it could b	ecomi	
6.	If you are just	a little bit	, it's n	ot a serious problem,
	though you sh	nould probably lose	the extra weight	as soon as possible.
7.	My car is a pie	ece of	; it doesn't	run well at all.
		vities, you should b		
9.		is a growing	g problem among	both children and
	adults.			
10.	Ι	from the w	veight shown on the	he scale that I needed
	to go on diet.		199.	
b	Vocabular	у		
	calories	minimal		in other words
	skyrocketed	flavor		
	lure	fraction	a sociate	life-threatening
1.	I ate a	of the	e amount of pizza	that he ate.
2.	Cream contain	ns more	than m	ilk.
3.	3. She eats fast food regularly she's a fast-food jur		he's a fast-food junkie	
		eek, the price of egg		
5.	There is a	a	mount of sugar in	the tea. I don't think
	you will even			
6	And the second s	eth regularly.	I	have no cavities.
104	i crusti iny te			
22	28			

She used a piece of meat to house.  What is your favorite ice cream	?
. What is your favorite ice cream	?
. When he stopped drinking soda and eating junk f	ood, he lost 20 kilos.
That's a amount of weight	
. Some fast food is so full of preservatives that it wor	n't
. My and I run the business to	gether.
. The problems he was experie	encing were a direct
result of obesity.	
Vocabulary Review: Definitions	
atch the words with their definitions.	
1. all at once a. easily damaged	
2. retain b. dream	
3. fragile c. send	
4. exploit d. watch carefully over ti	
5. fantasy e. feeling of togetherne s	
6. monitor f. not open to visitors	
7. off-limits g. keep; hold on to	
8. transmit h. suddenly	
i. staff j. take advantage of; tier	at unfairly
j. take advantage of, the	it tildinity
1	auch Information
Comprehension Check: True/False/Not In	lough imormation
1. Infectious diseases are a more serious pro	blem today than in the
past.	
2. BMI stands for body mass index.	
Doctors can use the BMI to determine wh	nether someone is
underweight.	
4. To determine your BMI, you need to know	w your weight only.
5. The number of obese people in the world	will double in the next
10 years.	

6. People are more sedentary no	w than in the past.
7. Junk food provides few calori	es.
8. Much fast food contains artific	cial flavoring and preservatives.
9. There is no scientific evidence cause obesity.	that enting fast food regularly can
10. The fast-food industry is willi people to eat their food.	ng to spend a lot of money to get
e Comprehension Questions	
1. Why do some people call obesity an	epidenic?
<ol> <li>How is the epidemic of obesity difference.</li> <li>What is the body mass index of a perence.</li> <li>Would a person with a BMI of 31 be.</li> </ol>	rent from epidemics in the past? rson of normal weight?
5. Why do you think so many children	
6. What is junk food?	1 1 1 1 20 2
<ol> <li>How have people's eating habits cha</li> <li>Why aren't fast-food restaurants mo food?</li> </ol>	
9. Why is it possible for fast-food restart. 10. What are some of the health effects of	
f Reading Strategy: Distinguishir	ng Fact and Opinion
Identify each statement below as a fact or an line. Then underline the words in the sentence opinion.	
	lemic killed millions of people.
	work for the Centers for Disease
Control and Prev	
3. Dr. Gerberding to	hinks that obesity is the most serious
	n the United States today.
4. The BMI provide someone is over	es a good way to determine whether weight.
	used to be what people had to do to

survive.

	n 2001, the U.S. Surgeon General reported that besity can be linked to roughly 300,000 deaths a yea
8. P	People should be looking hard at their diet.
8 Vocabulary Expa	nsion: Collocations
Match the verbs and nouns	you can use together. Write the number of one or more
verbs next to each noun.	
Verbs	Nouns
1. absorb	a. information
2. inhale	b. surger
3. lead	c. someone's name
4. memorize	d. calorie
5. dial	e. water
6. perform	f. a horse
7. recall	g. a list of words
8. consume	h. smoke
	i. a sedentary lifestyle
	j. a number
	k. fuel
	l. a task
000000	
h Grammar Review	v: Transition Words
Grammar Neviev	v. Italisition vvoids
Choose a transition word fr	om the list to complete each sentence below.
	spite of even though
in fact in	other words consequently
1. Obesity is becoming	a serious problem among young children.
	, more than 22 million children are now thought to
	, more than 22 humon tindien are now thought to
be overweight.	*
	ime fewer calories and engage in more physical
- attriber	, they need to eat less and exercise more.

4	the high amount of sodium and fat in fast food,			
many	people eat it several times a wee.			
5. Some people eat a lot of fast food they know it				
	or them.			
6. Restau	rrants are serving larger and larger portions of food.			
1.7	, customers are consuming more calories than they			
used to	0.			
i Sen	tence Combining			
Read the ex following ti	ample and the model combinations below. Then rewrite sentences 1 and 2 the models.			
Example:	Fast-food companies lure children to their restaurants. They offer toys and a party atmosphere.			
Models:	<ul> <li>Fast-food companies lure children to their restaurants by offering toys and a party atmosphere.</li> </ul>			
	b. By offering toys and a party atmosphere, fast-food companies lure children to their restaurants.			
	<ul> <li>To lure children to their restaurants, fast-food companies offer toys and a party atmosphere.</li> </ul>			
Fast-foo efficien	od companies make high profits. They produce meals cheaply and tly.			
a b				
c 2. Doctors mass in	s can determine whether someone is overweight. They use the body			
a b				
C				
<b>j</b> Wri	ting			
habits or p	out your eating habits and decide whether you have good eating poor eating habits. Then explain in writing why you think so etails and examples in your writing.			

lesson

4

### Can Fashion Be Hazardous to Your Health?



### im Graham

#### Before You Read

- 1. How might the shoes in the photo be harmful to a person's health?
- 2. What are some other examples of popular clothes that are either uncomfortable or dangerous to wear?
- 3. What are some common things that men and women do to look more attractive?



#### **Context Clues**

The words in **bold** print below are from this less on. Use context clues to guess what each word means.

- Just because something is popular, or fashionable, doesn't mean that it is going to be good for your health.
- History is full of examples of unhealthy things people have been willing to do in the name of fashion, and today there are still many people who risk their health just to be in style.
- In the 16th century, many women put white makeup on their faces to be fashionable.
- At other times in history, women were willing to drink small amounts of the poison arsenic because it made them look fashionably pale.

# 4 Can Fashion Be Hazardous to Your Health?

Just because something is popular, or fashionable, doesn't mean that it is going to be good for your health. History is full of examples of unhealthy things people have been willing to do in the name of fashion, and today there are still many people who risk their health just to be in style.

Many people are familiar with the neck ring custom of the Padaung people of Myanmar. At about age five, young girls begin to wear their first rings, which can weigh as much as 3 kilograms; over time, more rings are added. The weight of the rings pushes down the young girl's collarbone and upper ribs, making the neck appear to be very long. Unfortunately, the rings also cause the muscles of the neck to become so weak that they can no longer hold up the head. If the neck

rings were removed, the woman would not be able to sit or stand up.

The ancient Chinese practice of foot binding is another example of beauty at the price of hellth. This very painful procedure began when a youngirl was between the ages of three and six. During the procedure, the four smaller toes on each footwere broken and turned under, and the feet were vrapped tightly with a bandage. Each day, the bandage was tightened a little more to make the footsmaller and smaller. After several years, the child's feet were just 8 to 10 centimeters long, making it impossible for her to walk naturally. The procedure itself was hazardous, with perhaps as many as 10 percent of the garls dying from infection or circulation problems caused by the tight bandages.

While the binding of feet might seem ab urd to us today, women continue to do damage to their feet in the name of beauty. Wearing high heels, for example,

shortens the muscles of the lower leg and can cause the back to arch unnaturally. This can lead to serious back problems and nerve damage. When ultra-high platform shoes were popular in Japan, police official accused them of causing many car accidents. They said that

the thick soles of the shoes slowed the response time of drivers, especially when they had to bralle in an emergency.

Cosmetics have been in use for thousands of years, and while many types of cosmetics are harmless, there are some that can be dangerous indeed. In the 16th century, for example, white skin was the ideal, and many women put white makeup on their faces to be in style. Unfortunately, the makeup was made with the poisonous metals lead and mercury. Used over a long period of time, the makeup could eventually remove layers of skin, cause teeth to fall out, and sometimes poison people, leading to death. At other times in history, women were willing to drink small amounts of the poison arsenic because it made them look fashionably pale.

tying tightly

method (for doing something)

covered

curve extremely; very

bottoms stop or slow down

truly goal; idea of perfection



The popularity of corsets in Europe in the 16th century provided another opportunity for women to exchange health for beauty. A corset is a tight-fitting piece of clothing that women wore to change the shape 60 of their body. Made of steel, leather, and bone, corsets were supposed to provide every woman with the tiny waist that was so fashionable at the time. Unfortunately, middle section of a corsets were also known to break ribs, puncture lungs, cause indigestion, and bring on shortness of breath. In 65 fact, when corsets became popular again in the 19th century, a new type of furniture known as a fainting couch became popular as well. A fainting couch looked like a narrow bed, but it was placed in sitting rooms and other public places. At a time when women

person's body

70 frequently fainted because of their tight-fitting corsets, it was useful to have a convenient place for them to lie down.

passed out; lost consciousness easy to use or get to

While corsets are not fashionable today, there is no shortage of hazardous things that people are willing to 75 do to be in style. In some parts of the world, people are willing to pay for a procedure known as leg stretching just to become 8 centimeters taller. This procedure involves breaking the leg bones and then slowly, over a period of months, stretching the legs. The risks include 80 nerve damage, bones becoming too weak to support the body, and uneven legs. Lying out in the sun to change the color of your skin is still a popular activity in many parts of the world, despite the fact that too much sun can cause skin cancer. Body piercing has been a custom 85 in many parts of the world for centuries, but now we know about some of the health risks that go along with this fashion. Piercing the skin can cause infection, and piercing the tongue can cause gum damage and even broken teeth.

Throughout history, people have done extraordinary things to their bodies just to be fashionable. Pain, medical complications, and even the 11sk of death have not discouraged people from trying to become more beautiful.

a	Voca	bu	lary
			-

	fashionable absurd accused	arch	procedure nerve brake	bandage ultra weak
1.	Has anyone ever do?		you of doing	omething you didn't
2.	High divers often the air.		their backs w	hen they are up in
3.	Corsets used to b	e	, but they no	longer are.
				ort in your country?
5.	What can you use	to	søveral sti	cks together?
6.	When you want t	o stop a car, you	have to slep on the	
7.	It seemshealth.	to de	o something that o	ould harm your
8.		carry message	es from your brain	to different parts of
9.	your body.  The skin on the _ on your arms.		_ of your feet is l	narder than the skin
10.		ane is called an _		light.
	Α		rotect a wound by	
U	Vocabulary			
	in style makeup faint	wrap pale convenient	indeed waist pierced	ideal puncture weak
1.	Another word fo	r cosmetics is	4	
			cause she looked	very
3.	If you think you	are going to	, )	ou should sit down.

4.	He	the meat with a lork to see if it was cooked					
	completely.						
5.	It costs a lot of money t	o be	all of the time.				
6.	If you want to touch yo		legs straight, you have to bend				
7.	Different cultures have		s of the				
	parent or the						
8.	If you	a tire on your	bicycle, all the air will escape.				
			a cloth around their head.				
	Did I have a good trip?						
	Driving a car is more _		than taking a bus, but it is				
12.	Her knees felt	, and	he began to fall to the floor.				
2. 3. 4. 5.	extremely, significantly, figure out, determine, id deteriorate, designate, w devote, impair, damage, absurd, strange, bizarre, accuse, blame, encounte accelerate, brake, slow d	lentify, emit vorsen, degrade , harm , regular rr, suspect	ally				
8.	catastrophe, drought, ep	oidemic, impressio					
d	Comprehension Cl	heck: True/False/	Not Enough Information				
	1. Most fashionabl	e things are hazar	lous				
			k rings frequently take them of				
	3. Neck rings help						
	4. All Chinese wor						
		The second second second	WEST-21 (1991)				

- The pain from foot binding lasted for only a short time.
- High heels aren't good for a person's back.
  - Most cosmetics used to be poismous.
    - 8. Only women used to wear corsets.
  - Piercing the tongue is very painful.
  - 10. Leg stretching is a relatively painless procedure.

#### e Comprehension Questions

- 1. How can neck rings be dangerous to a person's health?
- 2. What health problems could foot binding cause?
- 3. What is unhealthy about wearing high hols?
- 4. Why is it dangerous to drive while you are wearing platform shoes?
- 5. Why did women in the 16th century want to have white skin?
- 6. Why did corsets become fashionable?
- 7. How could a corset damage a person's health?
- 8. What was the purpose of a fainting couch?
- 9. What are the health risks of leg stretching
- 10. What other fashions may be hazardous to a person's health?

### Vocabulary Expansion: Word Form

Choose the right word form for each sentence below

3	Verb	Noun	Adjective	Adverb
		convenience	convenient	conveniently
100	accuse	accusation	accusativ€	accusatively
1	fashion	fashion	fashionable	fashionably
		absurdity	absurd	absurdly
j	idealize	ideal	ideal	ideally
1	poison	poison	poisonous	
i	appear	appearance		
-	circulate	circulation	circulatory	

- 1. What time would it be \_\_\_\_\_ for me to come over.
- 2. Why might someone make a false \_\_\_\_\_
- 3. Are you usually dressed \_\_\_\_\_?
  4. What is the biggest fashion \_\_\_\_\_ around today?
- tall, thin people? 5. Why do a lot of people \_\_\_\_\_
- 6. How can parents keep \_\_\_\_\_\_ away from their children?
- 7. What is the most absurd thing you have ever done to your
- 8. What effect can very cold weather have on your \_\_\_\_\_

### Grammar Review: Verb Tense

Complete the paragraph with the correct form of the verb to be.

Cosmetics	in use for thousands of years, and
while many types of cosmetics	harmless, there
some that ca	in be dangerous indeed. In the 16th
century, for example, white skin	the ideal, and
many women put white makeup	on their faces to be in style. Unfortu-
nately, the makeup	made with the poisonous metals

eventua	lly remove layers of skin, cause teeth to fall out, and sometimes beople, leading to death. At other times in history, women willing to drink small amounts of the poison arsenic
because	it made them look fashionably pale.
<b>i</b> Sen	tence Combining
	cample and the model combinations below. Then rewrite sentences $1$ and $2$ he models.
xample:	Lying out in the sun is still a popular activity. People do it even though they know it can cause cancer.
lodels:	<ul> <li>a. Lying out in the sun is still a popular activity, even though people know it can cause cancer</li> </ul>
	<ul> <li>Even though people know that lying out in the sun can cause cancer, it's still a popular activity</li> </ul>
	<ol> <li>Despite the fact that lying out in the sun can cause cancer, it's still a popular activity.</li> </ol>
	etching is popular in some parts of the world. People do it even they know it can be dangerous.
a b	
	women continue to wear high heels. They do it even though they can cause back problems.
a b	
с	

Writing

Think of something that is both fashionable and harmful in some way to your health. Describe the fashion, and explain why you think it is unhealthy.

### **Video Highlights**

### a Before You Watch

- You are going to watch a video about a ban on smoking in public places. Such a ban would mean that people could not smoke in restaurants or bars.
  - a. What would be your reaction to the ban?
  - b. What do you think some of the arguments for and against the ban will be?
- 2. The words below are used in the video. Look up the words in a dictionary. How do you think these words will be used in the video? In pairs, discuss your ideas.

  advocates right (to do something equivalent address (an issue) business boomed exposed (to addicted adjustable something)

#### **b** As You Watch

- 1. Watch the video and listen for the vocabulary words above. How are the words used?
- Watch the video again. Match the quotes with the people who said them.
  - Restaurant patron #1 Churk Hunt
    Restaurant owner Bartender
    Mayor Restaurant patron #2
  - a. "You don't have a right to hurt others."
  - b. "It's kind of unfair to punish people when you get em you get people addicted to something."
  - c. "A total ban is telling us we have to now be the smoking police and tell our customers that they can't do something in our restaurant."
  - d. "It affected it [the business] in the beginning, but people seemed to be more adjustable after a period of time."



- e. "Most restaurants out here have outside patios, so people have a choice of sitting inside or outside."
- f. "I went to Florida, and they didn't have "there. And it was disgusting."

#### C After You Watch

- Read the statements. Circle Agree or Disagree to indicate your opinion about the statements.
  - a. The video presents only one side of the issue.

Agree Disagree

b. All bartenders want the ban so that they won't have to inhale secondhand smoke.

Agree Disagree

 Restaurant owners are worried about how the ban will affect their business.

Agree Disagree

 Two states have already banned smoking, and businesses have not suffered.

Agree Disagree

e. The restaurant patrons who were interviewed are in favor of the smoking ban.

Agree Disagree

Form two teams to debate the topic "Should smoking be banned from restaurants and bars?" One team should represent a group of restaurant/bar owners. The other team should represent a group of antismoking advocates. First, write down your arguments in the chart below.

Arguments against the ban	Arguments for the ban

Then debate the issue with someone from the other team.

### **Activity Page**

#### Crossword Puzzle

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	14	8												
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			18											
			19											

#### Across

- Farmers in many places have begun to \_\_\_\_\_ tobacco crops.
- 5. Something \_\_\_\_\_ is a mystery.
- You can \_\_\_\_\_ tobacco by smoking cigarettes or through your nose with snuff.
- 11. too much
- 12. to hold on to something
- Potato chips, French fries, cookies, and ice cream are \_\_\_\_ food.
- Ask for extension 603 after you the number.
- 17. very light in color
- 18. poisonous
- 19. \_\_\_\_ can lead to a variety of health problems, such as type 2 diabetes.

#### Down

- I live in a \_\_\_\_\_ neighborhood, close to the grocery store, laundromat, and subway.
- Hunters may use food to \_\_\_\_\_ animals into traps.
- 3. makeup
- 4. To be awarded the Nobel Prize is a great \_\_\_\_\_.
- Many people wear contact lenses to correct poor \_\_\_\_\_.
- Tongue \_\_\_\_ can cause infections and broken teeth.
- 7. Working on a computer all day can cause vision \_\_\_\_\_.
- 10. ridiculous
- Until recently, infectious diseases and \_\_\_\_\_ were the biggest health concerns in most countries.
- 16. sucks up, like a sponge



### **Dictionary Page**

#### **Understanding Labels: Slang**

Labels are sometimes placed after the part of speech to give additional information about a word. Look at the label for the adjective *hip*. Slang words are words that are commonly used informally but are considered unacceptable in formal speech and writing.

hip /hip/ n. 1 the part of the lody where the leg joins the pelvis: He fell and hunt his hip. 2 the area around the hip joint: She has wide hips. adj. clang informed, aware, esp. of you hful fashions: Hey, man, that guy is really hip!

 Use your dictionary to find the definitions of the following words about fashion.

Word	Definition
1. hip (slang)	informed, aware, especially of youthful fastions
2. trendy	
3. old-fashioned	
4. cool (slang)	
5. bad (slang)	
6. frumpy	*

2. Look at the photos. With a partner, use the words above to describe the photos.







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O Webey Getty Images

### Vocabulary

a

absorbs 213 absurd 235 abundance 134 abuse 66 accelerated 114 access 77 according to 38 account for 175 accurate 66 accused 235 achieving 88 acronym 76 adapt 4 address (v) 188 adept 115 adequate 77 all at once 215 altered 188 alternatives 176 although 25 altitudes 152 amateur 25 ancestors 4 announced 56 annual 175 applauded 87 appointing 87 appropriately 154 approves 39

approximately
123
arch 235
arrogance 39
artifacts 15
artificial 125
assigned 135
assistants 4
associate 226
assortment 164
astronomy 152
attempt 77
authority 87
awarded 66
awareness 88

10

ban 115 bandage 235 barren 103 barrier 114 basically 204 binding 235 biotechnology companies 188 bits 213 bizarre 164 blame 103 boasts 104 bolder 38 boosted 188 brake 235

breeding 187 budget 76

C

calculate 153 calories 226 campaign 39 capacity 137 captivate 165 carved 37 cases 65 catastrophe 116 ceasefires 55 certain 215 charter 54 cheating 37 circulation 125 citizens 134 codes 153 colossal 124 combat 39 come across 215 commercially 125 committed 104 compiled 164 complications 205 components 27 comprehend 215

concerns 38 conferences 56 conscience 65 consequently 226 construction 175 consumer 175 contaminated 77 contributions 66 controversy 6 convenient 236 convinced 135 cooperation 88 cosmetics 125 crack 16 crime 104 crisis 187 crowded 135 cultivate 204 curious 135 curves 26

d

data 153 deciphering 153 declarations 37 declined 125 decorate 15

degraded 114 delegates 54 democratic 87 deny 175 deplete 177 deposition 136 depression 214 deprive 188 designated 39 despite 115 destructive 175 detect 153 deterioration 227 determine 226 devoted 176 dial 214 director 225 disabled 154 disasters 77 discord 124 discourage 104 discrimination 77 dispel 164 dispersal 176 distinctive 38 distractions 215 diverse 105 divert 114 donated 78 doom 164 dramatically 136 draws 105 drought 114 due to 114 durable 15

e

economic 55 ecosystems 135 effective 39 elected 55 emergency 76 emission 176 encompasses 87 encountered 204 engages 88 enhanced 188 enormous 123 entailed 87 entirely 16 eradication 76 eroded 114 ethics 88 ethnically 105 evaluating 55 evil 5 evolved 37 exalting 87 excessive 214 expanded 76 exploitation 88 exposing 26 exquisite 26 extensive 5 extraordinarily 26 extremes 123

facilities 55

fainted 236 fair 66 fantasy 175 fashionable 234 feasible 176 feat 123 figure out 213 finest 16 fired 15 flavorings 227 flesh 123 focus on 56 fond 165 food chain 124 foolhardy 104 for instance 26 forever 124 formation 165 formerly 104 forthcoming 87 fortunate 165 fraction 227 fragile 16 fundamental 165 further 165

factor 176

failure 204

g

gain 114 gang 38 general 165 genetically 187 genuine 37 get rid of 39 globally 77 gravity 152 grazing 103 guided 87

h

habitats 135 hardy 124 harsh 4 harvesting 125 haziest 136 headquarters 54 healing 4 honor 204 hosts 137

i

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incredibly 17 indeed 235 indestructible 15 index 226 infectious 225 infertile 104 influx 105 inhaled 204 inhospitable 103 intermediary 88 invaluable 152 invertebrates 124 issues 56

j jail 17 judges 87 junk 226

labels 205 ladder 25 landscape 4 leading 205 lifespan 153 life-threatening 227 link 124 livestock 115 lung 205 lure 227 lush 113 m

magnificent 134 mainly 4 maintaining 55 makeup 235 malnutrition 77 management 115 massive 137 materials 15 meant 26 mental 215 merge 114 messengers 164 military 152 millennia 27 minimal 226 missionaries 105 missions 55 mobility 176 modified 188 monitor 152 moved (adj) 26 murdered 66

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potentially 152 poverty 188 prescription 188 presence 39 preserved 26 primarily 164 prison 65 procedure 235 profile 66 promised 6 properly 5 provide 226 publicity 66 puncture 236 punishments 17 purposes 16

r

ratio 5 recall 213 reclaim 115 recognize 87 recording 213 referees 87 refugees 116 registers 136 regular 226 release 65 reliability 66 remarks 65 repaired 154 repetition 214 representatives 54 require 5 resistant 17

respected 6 respiratory 205 responsibility 55 restore 4 retain 213 retreated 136 retrieving 213 revolving 152 rites 203 role 55 rotation 153 rough 26 routine 76 rubbed 203

#### 5

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valuable 67 vandalism 39 variety 203
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vital 77
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#### W

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### **Skills Index**

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