SECOND EDITION

INSIDE READING The Academic Word List in Context

Arline Burgmeier

SERIES DIRECTOR: Cheryl Boyd Zimmerman





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Arline Burgmeier

SERIES DIRECTOR: Cheryl Boyd Zimmerman

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- > Two high-interest reading texts from an academic content area
- > Reading skills relevant to the academic classroom
- > Targeted words from the Academic Word List





READING 1

Before You Read +

- Read these questions. Discuss your answers in a small group.
- 1. How would you define success?

000

- Are all famous people successful? Are all successful people famous? Give examples to support your opinion.
- 3. Name some people you consider successful. Why do you consider them successful?

Read

This article discusses important information about how to be successful. It defines success and explains what it takes to achieve it.

WHAT IS -SUCCESS?

hat is success? is it wealth? Fame? Power? We tend to think of success as something unusual, something that requires special talents to achieve. That's

- because stories in the media about successful business executives, professional golfers, glamorous movie stars, best-selling authors, and powerful politicians lead us to believe that only a few special people are successful. We may
- ¹⁰ not hear about them, but ordinary people can be successful, too. Success is about reaching for something—and getting it. It is about having something you didn't have before. It is about attaining something that is valued by others.

SETTING GOALS

¹⁵ Success begins with a clear goal, and **attaining** that goal requires ambition. Ambition is the energy that drives people to work hard, to learn more, and to seek opportunities to advance themselves. Some people have a clear goal, but they lack the ambition to make their dream come true. Other people have great ambition but no

66 UNIT 5

Reading Comprehension

- A. Mark each sentence as T (True) or F (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.
- 1. Stories generated by the media demonstrate that ordinary people can be successful.
- ____ 2. Family plays a major role in influencing a child's level of ambition.
- _____ 3. The teen years often coincide with a fear of failure and a lack of ambition.
- _____ 4. Positive learning experiences in the early years can inhibit persistence.
- 5. Dynamic people are aware that they must take effective action to attain success.
- 6. Despite their backgrounds, professional people are the most likely to succeed.
- ____7. Meeting the needs of today may dominate the thoughts of a young adult who grew up in a poor family.
- ____ 8. People seeking success might ask colleagues to assist them.
- ____9. One way to prepare for success is to exploit opportunities to learn through observation.

Discussion questions activate students' knowledge and prepare them to read.

High-interest readings motivate students.

Academic Word List vocabulary is presented in context.

Comprehension activities

help students understand the text and apply the targeted academic vocabulary.

xplicit Reading Skill Instruction

READING SKILL

Identifying Time and Sequence Words

Understanding the *order of events* in a story is often essential for understanding the story, especially a mystery such as Reading 1. The order of events can be shown in several ways:

- Sentences in a paragraph usually describe actions in the order that they happened.
- Time words such as Monday, March, summer, or 1989 tell when actions took place.
- Words such as before, after, soon, first, next, meanwhile, then, finally, and subsequently can show the order of events.
- 4. Phrases such as three days later, the next year, and at the same time also show time order.

APPLY .

LEARN (

- A. With a partner, use time clues and logic to figure out the order in which these events in Reading 1 took place. Number them from 1 to 9. A detective arrives.
- _____ The tall man hears voices downstairs.
- ____ Susan calls the police.
- _____ Susan realizes they have forgotten their tickets.
- _____ The tall man watches Susan and Eduard drive off.
- ____ Eduard tells the servant how to open the safe.
- ____ The tall man stuffs the jewelry into the red bag.
- _____ Susan concludes that someone is inside.
- ____ The tall man climbs out of the window.

84 UNIT 6

Explicit reading skills provide the foundation for effective, critical reading.

Practice exercises enable students to implement new reading skills successfully.

READING SKILL

APPLY

Scan the first four paragraphs of Reading 2. Answer the questions in complete sentences. Include the time words or phrases used in the Reading.
 When did Sherlock Holmes do his detective work?

Identifying Time and Sequence Words

- _____
- 2. When do the police send an ME and a CSI team?
- 3. When do the CSIs take photographs in relation to other tasks?
- B. Number these tasks from 1 to 7, in the order in which they are done by the CSI team.
- ____ dust objects for fingerprints
- ____ take photographs
- _____ send evidence to a forensics laboratory
- ____ present their evidence in a court of law
- ____ look for drops of blood or strands of hair
- ___ label the evidence
- _____ consult with the police chief

REVIEW A SKILL Identifying Examples (See pp. 52-53) •

What kind of examples are listed in paragraph 4?

What kind of examples are listed in paragraph 5?

Recycling of reading skills allows students to apply knowledge in new contexts.

The Academic Word List in Context

Based on a corpus of 3.4 million words, the **Academic Word List** (**AWL**) is the most principled and widely accepted list of academic words. Compiled by Averil Coxhead in 2000, it was informed by academic materials across the academic disciplines.



From Research to Practice

The Oxford English Corpus provides **the most relevant and accurate picture of the English language**. It is based on a collection of over two billion carefully-selected and inclusive 21st century English texts.

Noun	Verb	Adjective Adverb		
dominance domination	dominate	dominant		
	e means "to have strong t part of something."	control over something" or "to be		£
and the second second second second	nated our lives when my bi	rother and I were small	Corp	us-based examples f
	ireplace dominated the liv		• the C	xford English Corpu
		508	1	nerican English. Real
G. Complete this part work with a part		forms of dominate. Compare your	life e	xamples help studen
The term "alpha	male" is used in the scier	nce of animal behavior. It refers	learn	authentic English.
		p of animals, such as wolves.		
		numans, the alpha male tries to	110 110	
(2)	all of the other males	in his social group; for example,		
		al world, males may fight to attain		
(3)	over others. A human	n male may also "fight," but with words		
and actions that pro	ve he is superior. Often t	he male who (4)		
others is friendly an	d has clear goals, so othe	ers like having him as their leader.		
To be <i>aware</i> mean	s "to know about or rea	alize something." The opposite		
	The noun form is aware			
· · · · · · · · · · · · · · · · · · ·	that everyone was watchin	d him		
				E
Jon had no awa	reness that his name was	called.		
Jon had no awa Jon seemed und H. In your notebook own Ideas. Comp 1. A successful tea 2. During the race,	reness that his name was ware of the audience's ap , complete these sentence are sentences with a par cher is aware that marathon runners may	called. oplause. res about successful people. Use your ther. be unaware that	1US	
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Riding through History

In this unit, you will

- learn about the changes in technology that led to creating the modern bicycle.
- read about a very different vehicle and how it compares to a bicycle.
- increase your understanding of the target academic words for this unit.

READING SKILL Previewing

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking	used the word confidently in both speaking
AWL					or writing	and writing
🖧 alter						
🖉 design					Contraction of the local states of the local s	
🖉 fee					Contract Strength	
framework					Conception (197	
🖉 individual						
inherent					and the second second	
🞤 injure					and the second second	
🖉 job						
minimize						
overseas						
Primary						
revolution						- 19 - C
subsequent						
ℰ substitute						www.uitenguage.co



Outside the Reading What do you know about biking? Watch the video on the student website to find out more.

1

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READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Do you know how to ride a bicycle? Who taught you to ride? What was the hardest thing to learn?
- 2. What are some reasons that people ride bicycles?
- 3. If you could change or improve bicycles, what would you want to do?

READING SKILL

Previewing

Most good readers spend a few minutes *previewing* before they begin to read. Previewing a book or article means looking it over to get a general idea of what it will be about. It allows you to recall what you already know about a topic, and think about what you are going to learn.

Preview Reading 1, below, by answering these questions. Discuss your answers with a partner.

- 1. Read the summary printed above the article. In a few words, it tells what the article will be about. What do you expect to learn about in the article?
- 2. Look at the pictures and captions. What information do they give you about the topic?
- 3. Read the title. You already know that the article will be about bicycles, but what does the word "history" suggest? Read the bold print subheadings at the beginnings of many paragraphs. What information do they give you about the topic? Check (✓) the kind of information that *might* be in the article.
- ____ when the bicycle was invented
- <u>a description of the first bicycle</u>
- ____ changes in the bicycle over time
- _____ famous bicycle races
- ____ how to use bicycles for exercise
- ____ who invented the bicycle
- ____ how people reacted to the invention
- ____ how bicycle tires are made

Read

00

This article from a popular technology magazine tells about the many changes in bicycles during the past 200 years.

The History of Bicycles

he bicycle was not invented by one **individual** or in one country. The creation of the modern bicycle took nearly 100 years and the work of many **individuals**. By the end of those 100 years, ⁵ bicycles had **revolutionized** the way people traveled from place to place.



EARLY BICYCLES

Bicycles first appeared in Scotland in the early 1800s, and were called velocipedes. These early bicycles had two wheels, but they had no pedals. A rider sat on a pillow and walked his feet along the 10 ground to move his velocipede forward.

Soon a French inventor added pedals to the front wheel. Instead of walking their vehicles, riders used their feet to turn the pedals. However, pedaling was hard because velocipedes were very heavy. The **frameworks** were made of solid steel tubes, and the wooden

¹⁵ wheels were covered with steel. Even so, velocipedes were popular among rich young men, who raced them in Paris parks.

Because velocipedes were so hard to ride, no one thought about using them for transportation. People didn't ride velocipedes to the market or to their **jobs**. Instead, people thought velocipedes were just toys.

SOME CHANGES ARE MADE

- ²⁰ Around 1870, American manufacturers saw that velocipedes were very popular overseas. They began building velocipedes, too, but with one difference. They made the **frameworks** from hollow steel tubes. This **alteration** made velocipedes much lighter, but riders still had to work hard to pedal just a short distance. In addition,
- ²⁵ roads were bumpy, so steering was difficult. In fact, most riders preferred indoor tracks where they could rent a velocipede for a small fee and take riding lessons.

THE HIGH WHEELER

A **subsequent** change by British engineers **altered** the wheels to make pedaling more efficient. They saw that when a rider turned

³⁰ the pedals once, the front wheel turned once. If the front wheel was small, the bicycle traveled just a small distance with each turn. They reasoned that if the front wheel were larger, the bicycle would travel a greater distance with each

³⁵ turn of the pedals. So they **designed** a bicycle with a giant front wheel. They made the rear wheel small. Its **primary** purpose was to help the rider balance. Balancing was hard because riders had to sit high above the giant front wheel in
⁴⁰ order to reach the pedals. This meant they were

in danger of falling off the bicycle and **injuring**



themselves if they lost their balance. Despite this **inherent** danger, "high wheelers" became very popular in England.

A SAFER BICYCLE

American manufacturers once again tried to design a better
⁴⁵ bicycle. Their goal was to make a safer bicycle. They substituted a small wheel for the giant front wheel and put the driving mechanism in a larger rear wheel. It would be impossible for a rider to pedal the rear wheel, so engineers designed a system of foot levers. By pressing first the right one and then the left, the
⁵⁰ rider moved a long metal bar up and down. This turned the rear wheel, and the bicycle moved forward. Because the new safety bicycle minimized the dangers inherent in bicycle riding, more and more people began using bicycles in their daily activities.

THE MODERN BICYCLE IS BORN

The British **altered** the **design** one last time. They made the two ⁵⁵ wheels equal in size and created a mechanism that used a chain to turn the rear wheel. With this final change the modern bicycle was born.

Subsequent improvements, such as brakes, rubber tires, and lights, were added to make bicycles more comfortable to ride. By 1900, bicycle riding had become very popular with men and
 women of all ages. Bicycles revolutionized the way people traveled. Today, millions of people worldwide ride bicycles for transportation, enjoyment, sport, and exercise.



Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____1. Many individuals took part in creating the modern bicycle.
- ____ 2. The first bicycle revolutionized travel in Scotland and overseas.
- _____ 3. Early velocipedes had frameworks made of solid steel tubes.
- _____4. American manufacturers substituted hollow steel tubes for the solid tubes.
- ____ 5. People in Paris paid a fee to ride velocipedes to their jobs.
- _____ 6. The primary purpose of the giant front wheel was to help the rider balance.
- 7. American manufacturers designed a bicycle with a small rear wheel that was inherently safer.
- 8. The modern bicycle was born when British engineers subsequently altered the wheels again and made them equal in size.

Vocabulary Activities STEP I: Word Level

- A. Read this passage about the Tour de France, a world-famous bicycle race. In each sentence, circle the one word or phrase in parentheses () that has the same meaning as the underlined word in the sentence. Compare your answers with a partner. Then take turns reading the sentences to each other using the circled words.
 - 1. The course for the Tour de France is <u>altered</u> (*measured / changed / marked*) every year, but it is always about 4,000 kilometers, or 2,500 miles.
- 2. The course is <u>designed</u> (*located / expected / planned*) to travel through towns, up steep mountains, and across flat lands.
- 3. Riders come from all over Europe as well as from <u>overseas</u> (*islands / abroad / oceans*) to take part in the 22-day race.
- 4. The race is divided into 20 stages, or parts. The rider who wins one stage has the honor of wearing a yellow Tour shirt in the <u>subsequent</u> (*final/longest/next*) stage.
- 5. The rider who has the fastest race time in all of the stages is the overall winner. Lance Armstrong is the only <u>individual</u> (*person / man / foreigner*) to win seven Tour de France competitions.
- 6. The <u>framework</u> (*mechanism / structure / wheel*) of modern racing bicycles is made of lightweight steel, aluminum, titanium, and carbon fiber tubes.
- 7. The recent use of lightweight frameworks brought about <u>revolutionary</u> (*unwanted / unfair / great*) changes in the 100-year-old race.
- 8. Teams pay an entrance <u>fee</u> (*payment / tax / salary*) to join the Tour de France. The fees create the prize money paid to the winning teams.
- 9. Riders must be good athletes to meet the physical demands that are an <u>inherent</u> (*unexpected / natural / dangerous*) part of a long race.
- 10. If a rider is <u>injured</u> (*sick / tired / burt*), he tries to <u>minimize</u> (*lessen / bide / endure*) the pain so he can stay in the race.

- 11. If the pain is too bad, the coach can assign a teammate to substitute for (*belp / take out / replace*) the injured rider.
- 12. The primary (main / total / easiest) job (purpose / employment / task) of a Tour coach is to help his team win.
- **B.** To *minimize* something is to make it less or to reduce its importance. Think about the problems that racing cyclists can have. With a partner, match the problem on the right with the item that can minimize it on the left. Then take turns creating sentences with the information.

 a
 1. knee braces
 a. stress on knees

 Knee braces can minimize stress on knees.

2. low handle bars	b. thirst
3. a helmet	c. sunburn
<u>4</u> . long sleeves	d. sprains
5. water	e. head injuries
6. ice	f. air drag

The adjective *inherent* refers to a natural, built-in quality of a person, object, or activity. *Inherently* is the adverb form.

Staying balanced is an **inherent** challenge for bicycle riders. Bicycle racing is **Inherently** dangerous.

C. With a partner, check (✓) the sports you think are inherently dangerous. Add one more. Then discuss the reasons for your choices in a small group.

coppue

CORPUS

snow skiing	<u> </u>
golf	horseback riding
soccer	motorcycle racing
basketball	swimming
long-distance running	mountain climbing
tennis	other:

Primary refers to something that is first, main, or basic. Here are some examples of collocations (words that go together) using the word *primary*:

primary colors primary elections primary school primary care physician

D. With a partner, match the worker on the left with his or her primary job on the right. Take turns creating sentences with the information.

<u>a</u> 1. tailor a. altering clothing to fit individuals

A tailor's primary job is altering clothing to fit individuals.

- _____ 2. architect b. teaching the classes of a teacher who is absent
- _____ 3. taxi driver c. driving people from place to place for a fee
- _____ 4. international airline pilot d. designing buildings

6 UNIT 1

- ____ 5. doctor
- ____ 7. janitor

- e. cleaning and taking care of buildings
- f. helping individuals who are injured or sick
- g. flying airplanes overseas

Which of the workers in activity D do their jobs primarily during the day? Which of the workers might also work at night?

Vocabulary Activities STEP II: Sentence Level

Word Form Chart					
Noun	Verb	Adjective	Adverb		
revolution	revolutionize	revolutionary			

The central meaning of *revolution* is "turning" or "changing." It can refer to one thing rotating around a central point, like the Earth's revolution around the sun. It can also mean "changing or trying to change the political system by violent action."

In this unit, *revolution* is used to mean "a complete change in methods, opinions, etc., often as a result of progress."

Bicycles led to a **revolution** in transportation.

Bicycles **revolutionized** the way people traveled from place to place.

Bicycles were a revolutionary idea.

- E. In your notebook, rewrite these sentences two ways. Use a different form of *revolution* in each sentence.
- 1. The addition of sound changed the way motion pictures told stories. (noun, verb)

The sound revolution changed the way motion pictures told stories. (noun)

The addition of sound revolutionized the way motion pictures told a story. (verb)

- 2. The jet engine caused a change in air travel. (verb, adj.)
- 3. Alfred Nobel created a new substance that he called "dynamite." (noun, adj.)
- 4. The discovery of X-rays changed medical science. (noun, adj.)

CORPUS

The verb *substitute* means to replace one thing for something different. The noun form *substitution* refers to the process of making a replacement. The noun form *substitute* refers to the person or thing that will be used to replace something.

The team captain **substituted** Ernesto for the injured player. He made the **substitution** because the injured player was in pain. The **substitute** went on to win the game.

The word *substitute* is commonly used for a teacher or player who takes someone else's place.

We had a substitute in math class today.

CORPUS

- F. Make words related to bicycles. Remove one letter from each word and substitute the given letter to make a new word. Tell a partner how to make the new words.
- 1. chair/n Substitute an N for the R to make chain.

Subsequent is an adjective that refers to something that is later than or follows something else. The adverb form is subsequently.

Henry Ford's first car was called the Model T. The **subsequent** Model A was introduced in 1927.

Henry Ford created the Model T in 1908. **Subsequently**, he built the Model A.

CORPUS

- **G.** Complete each sentence with forms of *subsequent* AND *substitute*. Be sure to use the correct form of each word.
- 2. European velocipedes were heavy because the framework was made of solid steel tubes. The _______ of hollow steel tubes by American manufacturers made the vehicles much lighter.
- 3. The high wheeler had a small rear wheel. A ______ change by American manufacturers ______ the larger rear wheel for the smaller one.

READING

Before You Read

2

Read these questions. Discuss your answers in a small group.

- 1. How much do you walk in your daily activities? Do you sometimes wish you could walk less? When?
- 2. How do you decide if you should walk, ride a bicycle, or drive when you go somewhere?
- 3. Have you ever seen a Segway? Describe where you saw it and what it looked like.

READING SKILL

Previewing

APPLY

Preview Reading 2 by answering these questions. Discuss your answers with a partner.

- 1. Look at the title of the article. Does the title tell you what it will be about? What does the word *future* in the title suggest about the article? How do you think this article will be different from the previous reading in this unit?
- 2. Look at the picture in the article. Does it help explain what a Segway is?
- 3. Read the bold type subheadings. What information do they give about the topic? Check (1) the questions that *might* be answered in the article.
- ____ Where are Segways used?
- ____ Who will ride Segways?
- ____ How are they like bicycles?
- ____ When was the Segway invented?
- ____ Where is the engine?
- ____ How much do they cost?
- ____ What are they used for?
- ____ How many Segways are there in Paris?

Read

This newspaper article poses questions about the future of personal transport.

Segway Into the Future

For nearly two hundred years, individuals worldwide have been riding bicycles for transportation, enjoyment, sport, and exercise. In 2001, the Segway, a revolutionary new vehicle, was introduced. The inventor imagined that the Segway might someday replace bicycles. Would this be possible? How does a Segway compare to a bicycle?

WHAT IS A SEGWAY?

Both Segways and bicycles are **designed** to carry ¹⁰ one rider. However, Segway riders do not sit on a seat. Instead, they stand on a platform while they are riding. The platform is the floor of a strong metal **framework.** A post with handles for the rider to hold is attached to the front of the

¹⁵ platform. A wide rubber wheel is attached to each side of the platform. Except for these two wheels, there are no mechanical parts on a Segway. Like a bicycle, it has no engine. However, unlike a bicycle, a Segway has no brakes, no pedals, no



HOW A SEGWAY MOVES

A Segway uses a computer system that is **designed** to respond to the **inherent** ability of riders to maintain their balance. For example, without thinking about it, a rider actually leans his body slightly forward when he expects to move forward. When the rider expects to stop, he leans his body

²⁵ slightly back. When the rider thinks about moving left or right, he leans left or right. The computer system checks the rider's body movements about 100 times every second. Instantly, the Segway moves forward, stops, or turns in response to every slight change in the rider's balance. It is easy to learn to ride a Segway because it responds to the rider's natural movements.

HOW A BICYCLE MOVES

³⁰ In contrast, it is hard to learn to ride a bicycle. The rider works constantly to stay balanced. She turns the pedals with her feet to make the bicycle move forward. She presses the brake levers to make the bicycle stop. To



alter her direction, the rider moves the handle bars left or right. If a bicycle rider leans too far to one side, the bicycle 35 will subsequently fall over.

Riding a bicycle is also hard work. A bicycle can travel as far as a rider can keep pedaling. It can go very fast if the rider has enough energy to pedal hard. For example, in the annual Tour de France bicycle race, riders travel more than 40 100 miles a day at speeds greater than 30 miles per hour.

A Segway race would not be very interesting. A Segway can't go very far, and it can't go very fast. A Segway is powered by a battery that limits it to traveling 24 miles (39 kilometers) on one battery charge. And it can travel

45 no faster than 12.5 miles (20 kilometers) per hour. Being battery-powered, not pedal-powered, the rider gets almost no exercise, but Segways are fun. Overseas and at home, they are popular with tourists. Visitors to over 200 cities, including London, Athens, and Bangkok, can pay a fee to



	Bicycles	Segways
Riders	One	One
Power	Pedaling	Battery
Top speed	30+ mph	12.5 mph
Range	Unlimited	24 miles per battery charge
Indoors/Outdoors	Outdoors	Indoors and outdoors
Easy to learn	No	Yes
Easy to balance	No	Yes
Provides exercise	Yes	No
Provides transportation	Yes	Limited

50 take a guided city tour on a Segway.

HOW SEGWAYS ARE USED

Segways can do things that bicycles cannot do. For instance, Segways are useful in jobs that normally require workers to do a lot of walking, such as delivering mail, inspecting farms, or patrolling buildings at night. An extra benefit is that **individuals** who cannot comfortably walk because of poor

55 health or injury can minimize their walking but still be able to work if they can ride a Segway.

Segways are useful in other kinds of jobs, too. Pizza restaurants, pharmacies, and other small businesses have substituted Segways for trucks to make neighborhood deliveries. Police departments around the world have

60 been putting officers on Segways instead of in cars or on motorcycles. The officers can patrol neighborhoods to keep them safe from crime. In many countries, security guards on Segways patrol airports, train stations, amusement parks, and other public places. Beijing public safety police patrolled on Segways during the 2008 Olympics.

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WHY SEGWAYS ARE NOT USED MORE

- 65 However, few people are buying Segways for their own use. One reason may be that they are expensive. Another may be that people fear being laughed at for buying a "toy." A primary reason, however, may be that people do not understand what a Segway is, and they are afraid that it is dangerous. Some cities have even passed laws that allow Segways to travel
- 70 only on sidewalks. The cities are concerned that Segway riders will cause accidents if they ride in the streets. Other cities allow Segways only in street bicycle lanes. They are concerned that people on the sidewalk might be injured by a Segway. Meanwhile, many cities are creating new bicycle paths and street traffic lanes to encourage people to ride bicycles.
- Will Segways ever replace bicycles? Probably not, but they can do certain 75 jobs that bicycles cannot do. Segways are hard-working vehicles that we are likely to see more of in the future.

Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. The Segway's framework consists of a platform and a post with handles.
- ____2. The driver can alter the direction of the Segway by leaning to the left or right.
- ____3. The Segway was primarily designed for individuals who cannot walk comfortably.
- ____4. Workers have been injured while riding Segways on their jobs.
- ____5. If the driver leans forward, the Segway subsequently slows down.
- ____6. People seem to have an inherent fear of electric vehicles.
- ____7. For a fee, people can take a tour on a Segway in some cities overseas.
- ____8. Segways can substitute for trucks to make neighborhood deliveries.
- ____9. Segways can minimize the walking that some jobs require.

Vocabulary Activities STEP I: Word Level

A. Use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

alter	Individual	an inherent	revolutionized
designed	injured	minimize	subsequent
framework	had a job	primary	substituted
In 1901 Glenn Cur	tiss was 23 years o	hd and	
In 1901 Glenn Cur	tiss was 23 years o	hand	
in 1701, Olehin edi		(1. worke	ed at)
manufacturing and sell	-	(1. worke	love of speed. He

(3. change) a rider could pedal them. Glenn . an engine that

(4, made the plans for)

a tomato can for a carburetor. He attached the engine to the
drive mechanism of a bicycle. However, the engine did not make the bicycle go
much faster, despite the loud noise it made. A engine that
Glenn built was too heavy, and the bicycle was hard to balance. Riders often tipped
over and themselves. The heavy weight of the engine was the
problem he had to solve. After many tries to
(9. lessen) the weight, he solved the problem by making the
stronger. He began racing his "motorcycle." In 1907, Glenn set
a speed record. He went 136 miles per hour, faster than any in
the world had ever traveled. Glenn's invention bicycle riding.
A word analogy shows the relationship between two sets of words. To solve an analogy, you must identify how the words in the first set are related. Here are some examples.
apple : fruitexampleAn apple is an example of a fruit.pretty : lovelysynonymPretty and lovely have similar meanings.young : oldantonymYoung and old have opposite meanings.bicycle : rideactionRide is the action when you use a bicycle.room : housepartA room is part of a house.
To finish an analogy, think of a word to complete the second set of words that has the same relationship as the first set.
apple : fruit AS carrot :
An apple is an example of a fruit, so the missing word is <i>vegetable</i> . <i>Carrot</i> is an example of a <i>vegetable</i> .
You say an analogy like this: "Apple is to fruit as carrot is to vegetable."
B. With a partner, use the target vocabulary in the box to complete these analogies. Then write the type of relationship each analogy has.
Relationship
1. garden : flower AS crowd : individual part
2. car : damage AS person :
3. save : spend AS increase :
4. nation : country AS abroad :
5. write : check AS pay :
6. false : true AS last :
7. bus : vehicle AS bus driver :
8. before : after AS earlier :
*

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- C. With a partner, decide if these lines from advertisements were written before 1900 to sell early bicycles or after 2001 to sell modern Segways. Mark an advertisement B for bicycles or S for Segways.
- ____ Hollow steel tubes substituted for solid tubes to minimize the weight.
- ____ Lean forward and watch this revolutionary vehicle go!
- ____ Individuals can alter their speed by just turning the pedals.
- ____ Used overseas to patrol the Beijing Olympics.
- ____ Avoid injuries. For a small fee, learn to ride on an indoor track.
- _ Inherently easy to drive. Primary power is from batteries.
- ____ You thought high-wheelers were great? Try the subsequent design!

A *framework* is a structure upon which other parts are built or attached. On a bicycle, the wheels, pedals, and handlebars are attached to the steel framework. Sometimes, framework refers to the basis or foundation of something.

The frameworks of early velocipedes were made of solid steel tubes. A good education forms the framework for a successful career.

D. With a partner, match the frameworks on the right with the object or system that they support on the left. Take turns making sentences with the information.

The framework of a human body is the skeleton.

a. steel beams
b. an interesting plot
c. the number 10
d. a constitution
e. the skeleton

To alter something means "to make something different in some way, but without changing it completely." If you alter something, you have made an alteration.

Some things that you might alter include items of clothing, plans, or opinions.

CORPUS

- E. With a partner, imagine that you have borrowed a friend's bicycle for the weekend. Which things can be altered on a borrowed bicycle? Write A for each item you could alter.
- ____ the speed of the bicycle
- _ the color of the framework
- _____ the size of the wheels
- _____ the direction the bicycle turns
- ____ the height of the seat
- ____ the speed that the wheels turn
- ____ the design of the bicycle
- ____ the mirrors on the handlebars

Vocabulary Activities STEP II: Sentence Level

Word Form Chart					
Noun	Verb	Adjective	Adverb		
design designer	design	designed	and the second second second		
individual individuality	individualize	individual individualized	individually		

The noun individual means "person." The plural is individuals.

There were 200 individuals in the research study.

The adjective individual means something intended for one person.

Each bowl contained an individual serving of rice.

Individually means to perform an action one person or object at a time.

She washed each glass individually.

To individualize something means to make it special for each person.

The teacher **individualized** the assignment by giving each student a different topic to write about. We had **individualized** topics.

Individuality refers to what makes a person unlike any other person.

Twins may show their **individuality** by wearing different clothing.

F. The Pinewood Derby is a car race sponsored by the Boy Scouts of America. The cars are small—just seven inches long. Rewrite these sentences about the Pinewood Derby to include the word in parentheses. Discuss your sentences with a partner.

- 1. Each boy works by himself to make his own cars. (individually)
- 2. First each boy makes a plan of his car on paper. (design, verb)
- 3. He wants to make his car look like no other cars in the derby, so it will be special. (*individualize*)
- 4. He can show his unique personality in many ways. Some boys plan their cars to look like a snake or a hot dog, for example. (*individuality, design*)
- 5. To build the car, the creator traces his plan on a block of wood and carves out the shape. Then he attaches the wheels and paints his car. (*designer*, *design*)
- 6. On the day of the race, the Boy Scouts roll their cars down a sloped board one at a time. The fastest car down the board wins a prize. (*individually*)
- 7. The judges give separate prizes for the funniest car, the scariest car, and other categories. (*individual*, adj.)
- 8. Every car is a winner. The contest is planned to show every boy's special qualities. (*designed*, verb; *individuality*)

- **G.** In your notebook, rewrite each of these sentences to include the words in parentheses (). Share your sentences with a partner or small group.
- 1. Great changes in transportation have taken place in the last 200 years. (*revolutionary*)

Revolutionary changes in transportation have taken place in the last 200 years.

- 2. Farmers replaced animals with tractors to pull their plows. (substituted for)
- 3. Airplanes made traveling across oceans easier and faster. (overseas)
- 4. Jet airplanes made the time of flights shorter. (minimized)
- 5. No one walks anymore. People travel mostly on wheels. (primarily)
- 6. The first airplane was made of wood covered by cloth. (framework)
- 7. Segways rely on the natural ability of riders to maintain their balance. *(inherent)*
- 8. Early trains were powered by steam. Then changes were made in their plans so they could be powered by diesel engines. (*subsequent/alterations/designs*)
- H. Self-Assessment Review: Go back to page 1 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Imagine that you work as a police officer in a small city. Your department has purchased a Segway for each officer who patrols the city streets. Yesterday was your first day patrolling on your Segway. Use your imagination and write a story about how you used the Segway, what you liked, and what problems you had.
- 2. Reading 1 ends with, "Today, millions of people worldwide ride bicycles for transportation, enjoyment, sport, and exercise." Describe examples of each of these uses.
- 3. The Segway was not designed to be used for sport; however, some people believe that certain team sports could be adapted for players riding Segways. What sports could be adapted to use Segways? How would the players in each sport use them?





Fighting Diseases

In this unit, you will

- read about the causes and effects of malaria in sub-Saharan Africa.
- read about sources of new medicines.
- review previewing a reading text.
- increase your understanding of the target academic words for this unit.

READING SKILL Finding the Main Idea

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS AWL	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking or writing	used the word confidently in both speaking and writing
access						
🞤 accompany						
					10	
cooperate						e
🞤 decline						
implement						
🞤 intense						
🞤 labor						
					ere linear area rea	
✤ ministry						
& occur						
practitioner						
priority						
reside			And the second second second	ana ana ang ang ang ang ang ang ang ang	A CALIFORNIA STRATE	



Outside the Reading What do you know about medicine? Watch the video on the student website to find out more.

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READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Have you ever been very sick? What did you do to get well? How long did it take to get well?
- 2. What are some ways to prevent an illness?
- 3. Do you know of any insects that are helpful to humans? How do they help? Do you know of any insects that are harmful to humans? How are they harmful?

REVIEW A SKILL Previewing (See p. 2)

Preview Reading 1. Look at the title and the bold subititles in the article. Look at the photos. What do these things tell you about the article? What do you expect to learn from the article?

Read

This journal article includes information from the website of the Centers for Disease Control and Prevention (CDC), the principal public health agency in the United States.

00

THE BATTLE AGAINST MALARIA

alaria is a serious health problem. It is a leading cause of death in many countries. It **occurs** mostly in tropical and subtropical parts of the world, including parts of Africa, Asia, South America, Central America, and the Middle East. The place most **intensely** affected by malaria is Africa south of the Sahara Desert. About 60% of the world's malaria cases and 90% of malaria deaths **occur** there. Even though the causes of malaria in this region are well understood, international health agencies are finding that controlling it is still an enormous and difficult task.

THE MALARIA CYCLE

Malaria is passed from mosquitoes to people and from 10 people to mosquitoes in a cycle of events that repeats over and over. The malaria cycle begins with tiny parasites. These parasites **reside** in the bodies of *Anopheles* mosquitoes. These deadly parasites cause malaria. When a female mosquito bites a human, the mosquito draws off 15 blood. It also leaves malaria parasites in the human's skin.





These parasites quickly multiply inside the human and cause the individual to feel sick. If another mosquito bites a human who is sick with malaria, parasites from the human enter the body of the mosquito. When that mosquito bites another human, it will leave parasites in the other human's skin. In the malaria ²⁰ cycle, humans get parasites from mosquitoes and humans also give parasites

to mosquitoes.

EMERGENCY MEDICAL CARE NEEDED

Becoming infected with malaria is a **medical** emergency. The first symptoms or signs—of malaria are fever, chills, sweating, **intense** headache, and muscle pains. Nausea and vomiting often **accompany** these symptoms. Immediate ²⁵ **medical** treatment must be a **priority** for people who are infected. They must take medicines that will kill the parasites. If **medical** treatment is started soon enough, sick individuals can be cured. If it is not, malaria can cause serious illness or even death.

ONE WAY TO CONTROL MALARIA

Malaria in tropical Africa could be controlled in two ways. First, it could be controlled by killing the parasites that cause the illness. If every infected person quickly took malaria medicine, most would be well in a few days. Mosquitoes could not get malaria parasites from healthy individuals, so malaria would not spread. Unfortunately, many people live in far-away villages without **access** to quick **medical** care. Another problem is that the ability of quinine

³⁵ (the primary medicine used against malaria) to kill parasites has **declined** over time. There is hope, however, for new drug combinations. One, called ACT, is being used successfully to treat people who have malaria.

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ANOTHER WAY TO CONTROL MALARIA

Malaria could also be controlled by stopping the

- ⁴⁰ mosquitoes. One way would be to get rid of the pools of water where they lay their eggs. Also, insecticide¹ could be sprayed in wet areas and around buildings to kill mosquitoes. Finally, people could be told to sleep under bed nets to
- ⁴⁵ prevent mosquitoes from biting them at night. Bed nets sprayed with insecticide would both stop and kill mosquitoes.

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A bed net helps to keep mosquitoes away.

PROBLEMS FACING CONTROL

It is very difficult, however, to **implement** these plans. People in this region are poor—and made poorer by malaria because they may be too weak to work. They

⁵⁰ cannot afford to pay for **medical** care or to buy bed nets. Some people may be unwilling to **cooperate** with government efforts to help them. Their old beliefs about illness may **conflict** with modern attempts to cure or prevent malaria.

There are other problems, too. Health **ministries** may not have the money to build clinics or hire trained **medical practitioners**. They may not have the

⁵⁵ money to buy insect poisons and pay a **labor** force to spray regularly. And the frequent rainfall in tropical and subtropical regions would make it impossible to get rid of pools of water where mosquitoes lay eggs.

A recent discovery by **medical** scientists may offer a solution to many of these problems. In 2009, the **Ministry** of Health in Senegal arranged for scientists to

- visit three villages. A tropical illness called "river blindness" was common in these villages. The people were given the medicine ivermectin to treat it. Two weeks after the people had taken the medicine, the scientists found many dead mosquitoes. They discovered that when a mosquito bit a person who had recently taken ivermectin, the mosquito died. It was poisoned by the medicine in the person's
- ⁶⁵ blood. Now scientists wonder if malaria could be controlled by **implementing** a program to give this medicine to people every month. They need to find out if taking *ivermectin* every month will be safe. They also are waiting to see if there will be a **decline** in malaria cases in these villages. If it is safe and effective, this medicine could help stop the spread of malaria in sub-Saharan Africa.

¹ insecticide: a poison that kills insects

Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____ 1. Malaria occurs mostly in tropical and subtropical parts of the world.
- ____ 2. Deadly malaria parasites reside in the bodies of mosquitoes.
- _____ 3. Intense coughing and sneezing often accompany the fever of malaria.
- _____ 4. Old beliefs may conflict with modern ways to cure or prevent illness.
- ____ 5. Getting fast medical attention after becoming ill is a priority.
- ____ 6. Sleeping under bed nets would lead to a decline in malaria.

- ____ 7. Health ministries in some countries often cannot afford to implement plans to control malaria.
- _____ 8. Most people in tropical Africa have easy access to medical practitioners.
- 9. Educated people are not willing to cooperate with government plans to help them.
- ____10. A large labor force would be needed to spray insecticide regularly.

READING SKILL

Finding the Main Idea

LEARN

The *topic* of an article refers to what the article is about. The *main idea* of an article goes one step further. The main idea includes the topic and also what the writer wants to say about the topic. For example:

TopicMain ideamalariaseveral ways to control malaria

The main idea of an article is usually stated in the first paragraph, often in the first or last sentence. Sometimes it is stated in the last paragraph, which often summarizes the article. The main idea may be a full sentence or just a few words.

Each paragraph in an article contributes its own facts, definitions, and examples that help explain the main idea of the article. This means that each paragraph has its own main idea. Often it is in the first sentence of the paragraph.

APPLY

Reread the first paragraph of Reading 1. Find the sentence that tells you the main *idea*—what the writer wants to say about malaria—and circle it. Then write the most important part of the sentence here, as the main idea.

Reread the paragraphs below. Find the sentence that includes the main idea. Compare the main idea to the three choices (a, b, or c). Circle the one that best states the main idea.

PARAGRAPH 2

- a. The malaria cycle begins with tiny parasites.
- b. Anopheles mosquitoes are deadly.
- c. Parasites quickly multiply.

PARAGRAPH 4

- a. Malaria can cause death.
- b. Becoming infected is a medical emergency.
- c. Sick people must take medicine.

PARAGRAPH 7

- a. The people of the region need education about malaria.
- b. Plans to prevent malaria are difficult to implement.
- c. Malaria makes people poorer because they cannot work.

Vocabulary Activities STEP I: Word Level

A. Practitioner is a formal word to describe someone who practices a specific profession. With a partner, match these practitioners with their descriptions.

- 1. a practitioner of law a. a nurse who has had extra training and can perform some services of a doctor b. someone who teaches others <u>2.</u> a nurse-practitioner
- ____ 3. a practitioner of sports
- c. someone licensed to represent someone

CORPUS

else in legal matters

<u>4.</u> a practitioner of education d. an athlete

A ministry is a governmental department that oversees the administration of one area of responsibility. A ministry is headed by a *minister*. He or she is in charge of the *ministerial* duties of the department. The head of a government is often called the prime minister.

Not all countries use these titles, however. The governments of Mexico and the United States, for example, have departments headed by secretaries. The head of the government is called the president.

B. With a partner, match each government ministry to its area of responsibility. Take turns making sentences with the information.

The Ministry of Finance is responsible for the national budget.

- a 1. Ministry of Finance
- a. the national budget

e. farm products

- b. working conditions in factories ____ 2. Ministry of Health
- c. airlines and trains ____ 3. Ministry of Labor
- d. hospitals and healthcare practitioners ____ 4. Ministry of Agriculture
- ____ 5. Ministry of Transportation

Now, tell your partner the title of the person in charge of each ministry.

The Minister of Finance is in charge of the Ministry of Finance.

- C. With a partner, decide which of these conditions should be treated medically. Check (✓) your answers.
- ____1. a broken arm <u>4</u>, an earache ___7. choking ____ 2. hair loss ____ 5. a heart attack ____ 8. sneezing
- <u>3. a broken fingernail</u> <u>6. a high fever</u> ____ 9. an eye injury

A *conflict* (noun, pronounced CON-flict) is a disagreement or a difference in ideas or plans. It can be serious or not, depending on the context.

Two nations had an armed **conflict** that lasted five years. Ms. Ellis had a scheduling **conflict**. She had two meetings at 9 a.m.

To *conflict* (verb, pronounced con-FLICT) means "to happen at the same time" or "to be in disagreement." The adjective form is *conflicting*.

Her staff meeting **conflicts** with a sales meeting. Two professors had **conflicting** ideas about history.



- **D.** Which of these pairs of newspaper headlines have conflicting information? Discuss with a partner why they conflict or don't conflict.
- 1. a. HEALTH MINISTRY REPORTS A DECLINE IN MALARIA b. MALARIA NUMBERS INCREASE THIS YEAR
- 2. a. GOVERNMENT IMPLEMENTS NEW HEALTH PROGRAM b. NEW HEALTH PROGRAM PUT INTO SERVICE
- 3. a. STAFF TO ACCOMPANY PRIME MINISTER ON OVERSEAS TRIP b. PRIME MINISTER TO GO OVERSEAS ALONE
- **E.** The noun *labor* refers to hard or difficult work. The verb is also *labor*. With a partner, discuss what these people might be doing when they are laboring. Which people are probably paid for their labor? Which ones probably receive no money for their labor?
- 1. a student5. a housewife2. a farmer6. a poet3. an auto mechanic7. a musician4. a cook8. a gardener

Vocabulary Activities STEP II: Sentence Level

Word Form Chart					
Noun	Verb	Adjective	Adverb		
intensity intensification	intensify	intense intensive	intensely intensively		

The adjective *intense* refers to something that is strong or extreme. Something *intensive* suggests a strong focus of effort, power, etc. The verb *intensify* means to increase in strength. Other forms of *intense* have related meanings.

People have developed an **Intense** fear of malaria. Doctors have **Intensified** their efforts to control the disease. They have started an **Intensive** program to educate people.

Some common collocations: intense fear/anger/hunger/headache/odor/light, intensive program/care/study/effort/therapy

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napus
F. Rewrite these sentences to include a form of intense.

- 1. The common cold often causes strong feelings in schools. Students who have a cold often cause intense feelings in the classroom.
- 2. Teachers strongly dislike having sick children in their classes.
- 3. They say that children with severe coughs belong at home.
- 4. A sick child in class strengthens the chances that other children will get sick.
- 5. Our school's strong health program urges students to stay home if they are sick.

The *priority* of something refers to its importance or value in relation to other things. It is usually accompanied by an adjective.

My children are my highest priority in life.

Hospitals give patients with minor injuries the lowest priority.

When no adjective accompanies the word, it means simply *important*. If something is not important, it is not a priority.

Time is a priority here.	In this situation, time is important.
Color is not a priority.	Color is not important in this situation.

To prioritize things (goals, tasks, etc.) means to list or do them in the order of importance.

- G. Imagine that you work with the international organization Doctors Without Borders. Your team has just arrived in a country where most of the people are sick with malaria. With a partner, prioritize these actions-that is, rank them for importance. Write 1 for the highest priority, 2 for the next highest, etc. Give reasons for your prioritization.
- _ spraying homes with insecticide ____ giving food to sick people
- _ cutting down tall grass
- ____ getting rid of pools of water
- ____ giving medicine to sick people
- ____ teaching people to wash their hands

CDAPUS

		Word F	orm Chart	
N	oun	Verb	Adjective	Adverb
	residence residences (places)	reside	residential	residentially

To *reside* somewhere is to live somewhere or make your home somewhere. A resident is a person who lives in a particular place. The plural is residents. The place where a person lives is his or her residence. The adjective residential refers to places where people live.

Most people in Shanghai reside in apartment buildings. All of the residents of my village work nearby. We'll be moving to a new residence next month. Residential property is expensive in big cities.

H. Rewrite this memo to include forms of the words *priority, intense,* and *reside*. Try to use other target words from this unit also. Be prepared to present your work in class.

To: The Village Rescue Team

From: Relief camp director

Re: People living in villages affected by yesterday's earthquake

The strong earthquake yesterday morning injured many people who live in nearby villages. The earthquake also destroyed many homes.

The first thing we have to do is take care of the injured people. Next, we need to set up tents where people can live until their homes are rebuilt. There is plenty to eat here, so finding more food is not so important right now.

I have asked the village leader to decide which village services should be restored and in what order. His list will help us plan our schedule.

As more people come to the relief camp, our work will probably get more difficult. Help each other and try to make the best of this very difficult time.

To: The Village Rescue Team

From: Relief camp director

Re: People living in villages affected by yesterday's earthquake

Before You Read

Discuss the answers to these questions in a small group.

- 1. What medicines do you take when you are sick? How well do they work?
- 2. Did your parents or grandparents have some old-fashioned ways to treat illnesses? Did those treatments work?
- 3. What advertisements have you seen for medicines on TV or in magazines? What kind of promises do they make?

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READING 2

This article from a popular science magazine describes some of the sources for new medicines.

Searching for New Medicines

ver time, new diseases develop that cannot be cured with the medicines we have. Also, many medicines that once cured common diseases sometimes lose their power to cure. For these reasons,
 ⁵ modern drug companies are constantly looking for new medicines to help doctors cure both new and common diseases. One place that drug companies are looking is in the rainforests of the world. Scientists believe that new plants from the rainforests or simple
 ¹⁰ medicines from rainforest peoples might be sources

for future miracle drugs.

FINDING A CURE FOR MALARIA

Four hundred years ago, just such a miracle drug was found to cure malaria. In 1633, a fortunate event occurred. A man from Spain went to Peru to teach the

- ¹⁵ native people. While he was teaching, he learned something. The village healer—the only **medical practitioner** the people had ever known—was making a powder from the bark¹ of the cinchona tree. The healer used this powder to cure malaria. The man
- 20 brought some of this miracle powder home to Europe, where malaria was a serious disease at the time. Europeans began using the bark to cure malaria. Soon Europeans implemented overseas searches for sources of the tree bark.
- After many years, scientists identified the ingredient in the tree bark that ²⁵ cured malaria. It was quinine. By 1827, quinine was commercially produced and became the primary **medical** treatment for malaria throughout the world. By the 1960s, however, quinine's ability to kill the malaria parasite
 - had **declined** because the parasite was becoming resistant to it.

A NEW MEDICINE TO CURE MALARIA

About this time, another fortunate event **occurred**. Scientists in China were ³⁰ digging up ancient cities. One city was a place where people had **resided** 2,000 years earlier. The scientists discovered that the ancient people had used a plant, called wormwood, to cure fevers. Scientists collected living samples of the plant to test. They found that wormwood contained



Illustration of the cinchona tree and its flowers, fruit, and bark

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¹ bark: the hard outer covering of a tree



artemisinin. This chemical killed malaria parasites. Today, ³⁵ artemisinin is used in various mixtures with other drugs to treat people who have malaria.

THE HISTORY OF ASPIRIN

Aspirin is another ancient medicine. Its history dates back over 2,000 years, when ancient Greek physicians made a tea from willow bark to ease pain and lower fever. People

⁴⁰ continued to use willow bark as a home remedy for centuries. Modern scientists identified *salicylic acid* as the special ingredient in the bark that eased pain and fever. Soon, drug companies were making aspirin tablets containing salicylic acid. Today, aspirin is one of the most

⁴⁵ widely used drugs in the world. Around 100 billion aspirin tablets are produced each year.



A vase with an image of an ancient Greek physician.

A MODERN MIRACLE DRUG

Not all **medical** histories are centuries old. The story of *taxol* is an example of how miracle drugs are still being found in the world's forests. In 1966, scientists discovered a powerful chemical in the bark of the

⁵⁰ Pacific yew tree. This chemical could stop cell growth. They believed it would be useful in treating the unnatural cell growth of cancer. Several years later, taxol was being used in **intensive** treatments for certain kinds of cancer.

SEARCHING THE RAINFORESTS

Scientists think that many medicines may still be hidden in the rainforests of the world. As a result, over 100 companies that manufacture drugs are ⁵⁵ searching for new rainforest plants and testing them for possible **medical** use.

- Unfortunately, **access** to these rainforest plants is rapidly disappearing. Logging companies are cutting down the rainforest trees and selling the wood. Commercial developers are **laboring** hard to clear the land for houses, farms, towns, and roads. Clearly, the **priorities** of the scientists **conflict** with
- 60 the **priorities** of the loggers and the developers. The scientists want time to find plants that might cures diseases. The loggers and developers want to make money. They do not want to wait for the scientists to look for plants.

WILL CURES BE LOST?

Experts believe that about 50,000 types of plants, animals, and insects disappear every year because rainforests are being destroyed. Scientists

⁶⁵ fear that when rainforest species disappear, many possible cures for diseases will disappear with them. They also fear that when rainforests disappear, the villages of native people who **reside** in the rainforests will also disappear. When the people leave, their healers also leave. These **practitioners** are the only individuals who know the secrets of healing sick ⁷⁰ people with forest plants.

THE SEARCH IS ON

In fact, most modern drugs made from plants came from simple cures that village healers created from nearby plants. Also, some scientists say that over 70 percent of promising anti-cancer drugs originally came from rainforest

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plants. As a result, modern drug companies are sending scientists,

⁷⁵ accompanied by local translators, to work cooperatively with village healers. The scientists want to learn their secrets before those secrets are lost forever. Drug companies are also sending teams of workers into the rainforests to gather plants to test. If company scientists find a useful cure in a plant they test, they will identify the chemicals in the plant. Then, the
 ⁸⁰ company can manufacture a medicine that is chemically identical.

Before rainforests disappear completely, scientists want to gather as many **medical** secrets as possible. Soon, however, it may be too late to learn the rainforest's secrets.



Reading Comprehension

Mark each sentence as *T* (true) or *F* (false) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. In 1633, Indians residing in Peru treated malaria with a powder made from tree bark.
- ____ 2. Europeans had access to quinine over 2,000 years ago.
- _____ 3. The discovery of artemisinin occurred in the 1960s.
- _____4. Taxol is now used in the intensive treatment of malaria.
- ____ 5. Drug companies are implementing searches in the rainforests for new medicinal plants.
- _____6. Logging companies are cooperating with scientists by cutting down trees.
- ____7. The priorities of rainforest loggers conflict with the priorities of scientists.
- _____8. Translators accompany scientists into the rainforests to help scientists learn secrets from village healers.
- ____9. As rainforests disappear, the number of people living there will decline.

READING SKILL



LEARN

Sometimes the title of an article can help you determine its main idea. Be sure to pay attention to the words in the title.

The main idea of an article, or of a paragraph within an article, is not always stated clearly in one sentence. Sometimes you have to add or remove words.

APPLY

Answer these questions about the main idea of Reading 2 and the main ideas of the paragraphs.

- 1. Does the title *Searching for New Medicines* help you find the main idea of the article in the first paragraph? What is the main idea? Write it here in your own words.
- 2. The main idea of paragraph 2 is its first sentence. Take out the unnecessary words and write the main idea here.
- 3. Complete the main idea of paragraph 3: *The ancient people of ______ had used*
- 4. Complete the main idea of paragraph 4: Aspirin was first used _____
- 5. Complete the main idea of paragraph 5: Taxol is an example of _____
- 6. Complete the main idea of paragraph 7: Access to_____
- 7. Write the main idea of paragraph 8 in your own words.

Vocabulary Activities STEP I: Word Level

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One person accompanies another person when they go somewhere together.

My brother will accompany me to Indonesia.

I will be accompanied by my brother.

One thing accompanies another thing if they are used or appear together.

A fever often accompanies a cold.

The noun form, accompaniment, is mostly used in music.

The guitarist played with a piano accompaniment.

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- A. With a partner, match each item in the first column with the thing that it usually accompanies. Take turns making sentences with the information.
- <u>a</u> 1. washing instructions a. a new shirt

Washing instructions usually accompany a new shirt.

- ____ 2. dosage instructions b. a frozen pizza
- _____ 3. operating instructions c. a computer program
- _____ 4. cooking instructions d. a bottle of aspirin
- _____ 5. watering instructions e. an electronic appliance
- <u>6. installation instructions</u>
- f. a flowering plant
- **B.** Use the target vocabulary from the box to complete this story. Use the words in parentheses to help you.

access to	declined	occurred	priority
accompanied	labored	practitioners	resided

In the second room, few women died. Semmelweis tried to understand why more deaths _________ in the first room. Some people blamed bad air, but Semmelweis noticed that the first room was very dirty. The second room was very clean. He reasoned that something in the dirt was causing the infection.

Doctors wearing bloody clothes could not have _______ the patients. Nurse _______ and doctors had to wash their hands with a strong chemical before examining patients. Soon, the death rate

(8. went down) in the first room.

The word *decline* usually refers to something becoming weaker, slower, or not as good.

Grandfather's health is **declining**. (verb)

His doctor noticed a **decline** in his weight. (noun)

The verb *decline* is also used to reject or refuse something. For example, you might *decline an invitation*, or *decline to answer questions*.

C. With a partner, decide which of these things might decline as a person grows older. Take turns making sentences with the items you selected.

A person's eyesight might decline.

🚣 eyesight	income	amount of sleep needed
doctor visits	TV viewing	time spent with family
intelligence	appetite	sense of humor
energy level	interests	patience

As a verb, access means "to get or use something."

Doctors use the Internet to **access** information about new medicines. I couldn't **access** my email.

As a noun, the word often occurs in the phrase *bave access to* something, which means "to be able to get or use something."

Patients need to have access to information about the drugs they are taking.

The adjective form is often used in relation to people who lack certain abilities.

These bathrooms are accessible to students in wheelchairs.

or

These bathrooms are wheelchair accessible.

The negative form is *inaccessible*.

- **D.** With a partner, match the item on the left with what it can help you access. Take turns making sentences with the information.
- <u>a</u> 1. ladder a. a high shelf

You need a ladder to access a high shelf.

- ____ 2. password b. the school library
- ____ 3. key c. the subway train
- _____ 4. elevator d. the top floor of the building
- ____ 5. ticket e. your email
- ____ 6. student ID card f. a locked closet

To occur means to happen or to take place. The noun form is occurrence.

E. With a partner, decide when these events occur. Match the event on the left with when it occurs. Take turns making sentences with the information.

<u>a</u> 1. hot weather a. in the summer

Hot weather occurs in the summer.

- ____ 2. a full moon b. in the morning
- _____ 3. midnight c. in the middle of the week
- _____ 4. breakfast d. every 28 days
- _____ 5. Wednesday e. during a rainstorm
- _____ 6. thunder f. at 12:00 at night

Vocabulary Activities STEP II: Sentence Level

To *cooperate* with someone means that you will work together to do a job. The noun form is *cooperation*. The adjective is *cooperative* and the adverb is *cooperatively*.

Doctors **cooperated** with scientists to develop a new drug. They worked **cooperatively**. It was a **cooperative** effort. Their **cooperation** resulted in an effective new medicine.

F. Imagine that you are the Minister of Health in a country where malaria is a serious problem. In your notebook, write a letter to Dr. Long, who is the Minister of Health in a neighboring country. Suggest three ways that your two countries could cooperate to save people's lives.

The verb *implement* means "to start using a plan, system, etc." The noun *implement* means "tool."

- **G.** In your notebook, list examples of implements for writing, eating, cutting, and cleaning. List as many examples as you can. Discuss your ideas with a partner.
- **H.** Self-Assessment Review: Go back to page 17 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Reading 1 describes the cycle of malaria: from mosquito to person and back to mosquito. Describe another cycle of malaria: how malaria intensifies poverty and how poverty intensifies malaria.
- 2. What are some things that people can do to keep themselves healthy? What are some things that people can do to feel better if they get sick?



UNIT

مرجع زبان ايران

They Know What You Want

In this unit, you will

- read about strategies people use to market products.
- read about how products are named.
- review finding the main idea.
- increase your understanding of the target academic words for this unit.

READING SKILL Scanning

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking	used the word confidently in both speaking
AWL					or writing	and writing
administrate						
🞤 channel				week and the second	and the second	and the second s
aconvince 🖓	ι EC					States and the second sec
🞤 domestic						
explicit					and the second	
<i>&</i> export			the second second second	The second second	water of trees	man -
implicit					and the second	Sector Sector
<i>₽</i> income					and the second second second second	Contraction of the second
innovate						
invoke						
🞤 publish						
<i>&</i> sector				an Analysis and and a street and		
					Manager and Street	
survey					www.stanginge.com	ی رہاں اور انیان

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READING

Before You Read

1

Read these questions. Discuss your answers in a small group.

- 1. Where do you see advertisements? Think of as many types of places as you can. Where do you see the most ads?
- 2. Has an advertisement ever persuaded you to buy a product? Describe the ad and the product.
- 3. If you invented a new product, what do you think would be the best way to introduce it to buyers?

Read

This introduction to a marketing textbook discusses the different ways that marketing reaches customers.

They Know What You Want

ith her shopping list in hand, a supermarket customer is facing the challenge of selecting a breakfast cereal for her family. The shelves are stocked with as many as 200 varieties. Should she buy wheat, corn, rice, bran, or oat cereal? Sweetened or plain? With added vitamins? With a plastic toy in the box for her kids? Or should she buy the one she has a discount coupon for, or the one with the funny ad on TV, or the one that is on sale?

INFLUENCING SHOPPERS' CHOICES

The shopper's ultimate choice is likely to be determined by some factor other than taste.

 ¹⁰ Marketers create clever ways to persuade shoppers to buy one product instead of another. Often these have little to do with the food inside the boxes. Instead, they are only to attract shoppers.

DEFINING MARKETING

¹⁵ Marketing is a company's plan for selling a product. A marketing plan, **administered** by a marketing director, includes what to name the

product, how to advertise it, how to price it, how to package it, and how to convince customers to buy it. In short, the goal of marketing is to channel 20 a shopper's choices toward a single, specific product.



A marketing plan often begins with a **survey** to determine who is most likely to buy a certain type of product. Factors such as the **sex**, age, education, and **income** of

²⁵ future customers are considered. Then, a marketing team designs a plan aimed at a specific sector of the population, the group that they think is most likely to buy the product.



SELLING A NEW PRODUCT

30 Selling a cereal, a garden tool, a ballpoint

pen, and a designer wristwatch will obviously call for different marketing techniques. Good health may sell cereals but not pens; while humor may sell pens, but not watches. Reliable performance sells garden tools and pens, but not cereals. Rich people buy expensive watches. Students buy
³⁵ pens. Marketing teams must consider such factors when they design a

marketing campaign.

Suppose that a company has developed an **innovative** new product: a powder made from dried fruit. When mixed with warm water, the powder becomes a creamy fruit sauce for babies. Although babies will be the ones to

⁴⁰ eat the product, it is their parents who will buy it. The company's marketing plan will be aimed at the parents, specifically the mothers.

SELECTING A SLOGAN

A **survey** indicates that most mothers have two top priorities: 1. They want their babies to be healthy; 2. They want to be good mothers. Marketers use this information to create a name for the new baby food: Healthy Start.

⁴⁵ They also create a marketing slogan: *Give your baby a Healthy Start*. This slogan has both an **explicit** and an **implicit** message. It **explicitly** directs a mother to feed a Healthy Start meal to her baby. It also implies that this will make her a good mother because she will be giving her baby a healthy start in life.

ADVERTISING THE NEW PRODUCT

- ⁵⁰ The marketing team then decides how and where to sell Healthy Start baby fruit. They must decide where to **publish** advertisements and what the ads should say. Maybe the ads will **invoke** the authority of a
- famous baby doctor to emphasize the health appeal. The ads will certainly emphasize things like good taste, easy preparation, and high nutrition. Maybe the ads will include coupons for free samples.



OTHER CONSIDERATIONS

⁶⁰ Maybe the marketing team will try something **innovative**, like offering a Healthy Start college scholarship to a lucky winner. The team must also decide if the focus will be on **domestic** sales or if the baby food will be

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exported to foreign countries. A design company is already designing an attractive package for the product. The marketing team will test the name,

65 slogan, ads, and packaging by showing them to mothers and **surveying** their responses.

Finally, the new product will be placed on supermarket shelves. If the marketing was effective, mothers will select Healthy Start from the dozens of baby foods on the shelves. ■

Reading Comprehension

Mark each sentence as *T* (True) or *F* (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____1. A marketing director administers a marketing plan.
- ____2. A marketing plan includes ways to convince shoppers to buy a product.
- _____ 3. Sex, age, income, and education are some of the factors that divide the population into different sectors.
- 4. A survey of mothers indicates that they want to be happy and want their babies to be smart.
- ____ 5. A marketing slogan can have both an explicit and an implicit message.
- 6. Ads published in magazines might invoke the authority of a famous woman who is also a mother.
- ____7. Marketing teams only think about domestic sales of their products and not about exporting them.
- ____8. Offering a scholarship would be an innovative way to sell a new product.

READING SKILL

Scanning

LEARN

Students often need to find specific information from a text that they have already read. Instead of rereading the entire text, you can *scan* the article to find the information you need. *Scanning* means quickly passing your eyes over a text to notice specific things.

Think about what to scan for in order to find specific information.

To find	scan the text for
names	capital letters
dates	numbers and capital letters
statistics	numbers and symbols
lists	a set of words separated by commas
specific words	capital letters, letter combinations, words in <i>italic</i> or bold

APPLY

Scan Reading 1 for the answers to these questions. Before you scan, decide what you should scan for in each case.

- 1. How many types of cereal does the supermarket sell?
- 2. What factors are considered in a survey?
- 3. What is one top priority for mothers? _____
- 4. What is the other top priority for mothers?_____
- 5. What is the name of the product? _____
- 6. What is the slogan for the product?
- 7. Will the marketing team export the product?

Vocabulary Activities STEP I: Word Level

A. With a partner, use the target words to complete these analogies. Then write the type of relationship each analogy has: example, synonym, antonym, action, or part (see Unit 1 for more on analogies).

administer	implicit	sex	
export	income	publish	
			Relationship
1 mod a polom AC	female :		Relationship
1. Ted : color As			
2. radio progran	n : broadcast AS newspaper	:	-
3. take in : impo	ort AS send out :		
4. direct : indirect AS explicit :			
5. find : discove	5. find : discover AS manage :		
6. spend : money AS earn :			

B. With a partner, use the target vocabulary in the box to complete the report. Use the words in parentheses to help you.

administrators	explicit	published	surveys
domestic	implicit	sector	
(1. studies) sh the most dishes consists of	now that the women with child	(2. part) Iren. Accordingl	of society that washes y, marketing
(3. managers) target	t that sector when	they design adv	vertisements for a
dishwashing liquid. The ad	s are	alongs	ide other ads for

(4. printed for the public)

______products in magazines that primarily women read. Ads like (5. home) these often show a happy, smiling woman washing dishes.

Many women feel that such ads are unfair. They acknowledge that the

______ meaning is true: the soap *does* clean your dishes. They believe, however, that the ______ message is that washing dishes is fun instead of work.

To *channel* something means "to make something move along a particular path or route." A *channel* is the path or route. It is often used to describe water or communications pathways. A television station is also called a *channel*.

She channels her creative energy into her art.

This area has flood channels that carry rainwater to the ocean.

If we can't settle this conflict, we will go through legal **channels** to find an answer.

Channel 5 has the best local news programming.

C. With a partner, choose one item from each column to create logical examples of a *channel*. Then take turns making sentences with the information.

Signs channel hotel guests to their rooms.

signs	donations	to a customer's table
airlines	food and drinks	to needy families
waiters	passengers	to their rooms
arteries	hotel guests	through the body
charities	blood	through security checks

- **D.** With a partner, imagine that you work for a marketing agency. You have a list of questions to ask people about their habits. Match each question to the people you would survey. Take turns making sentences with the information.
- <u>a</u> 1. What do you spend on groceries each week? a. shoppers in a grocery store We could **survey** shoppers in a grocery store.
- ____ 2. What are your plans after graduating?
- _____ 3. What kinds of books do you like to read?
- _____4. How often do you travel by airplane?
- ____ 5. What kind of movies do you like?
- b. people entering a theater
- c. passengers in an airport
- d. students at a university
- e. readers in a library

Vocabulary Activities STEP II: Sentence Level

	Word Fo	rm Chart	
Noun	Verb	Adjective	Adverb
innovation innovator	innovate	innovative	innovatively

An *innovation* is the creation of something new, such as a machine, method, style or idea. To *innovate* is to introduce something new. A person who creates the *innovation* is an *innovator*. The adjective *innovative* can describe the person or the creation.

The computer was an amazing innovation. It led to other innovative products.

CORPUS

E. Complete this story using different forms of innovate.

Marketers know that (1) ______ advertising is one way

to get the attention of buyers. This means that effective marketers try to

(2) ______ when they create a marketing plan. One

(3) ______ created a process to print ads on the shells of

eggs. Egg farmers did not want to pay for this (4) ______.

Grocery stores didn't either. Finally, a TV station agreed to pay to have

their programs advertised on eggs.

It's too soon to know if this (5) ______will successfully

sell other products. One shopper complained, "Don't (6)

with my eggs! I have to eat them!"

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When a person or evidence persuades you, then you are *convinced*. The arguments or evidence was *convincing*.

I read a convincing article about climate change. I'm convinced it's real.

The witnesses at the trial were **unconvincing**. I'm still **unconvinced** that they saw what happened.



- F. Restate these sentences in your notebook, using the form of *convince* in parentheses. Compare sentences with a partner.
 - 1. Health professionals believe that obesity is a serious problem. (*are convinced*) Health professionals **are convinced** that obesity is a serious problem.
- 2. They want people to change the way they eat. (convince)
- 3. They have good evidence that junk foods are to blame. (convincing)
- 4. Food companies advertise in a believable way that junk foods will make us happy. (*convincingly*)
- 5. Children are especially easy to persuade. (convince)
- 6. Even if an ad shows something impossible to believe, children think it is real information. (*unconvincing*)
- 7. Food companies do not believe that they are to blame for children's obesity. *(unconvinced)*
- 8. They believe it is the parents' responsibility to control their children's diet. *(unconvinced)*

To *export* something means to send it to another country and sell it there. An *export* is the product that is sold. An *exporter* is a person in the business of exporting things.

Brazil exports coffee around the world.

Tea is one of China's most important exports.

Exporters look for inexpensive ways to transport their goods.

Exported and exporting can be used as adjectives.

Many of Mexico's exported goods go to the United States.

People in the exporting business need to speak several languages.

CORPUS

G. The chart lists a few countries in the world that export wheat. On a separate piece of paper, answer the questions about the chart in full sentences. Use the given form of *export*.

FIVE WHEAT EXPORTING COUNTRIES (2010)

Exporting Country	Amount of Wheat (In millions of tons)	Importing Countries
Canada	**************************************	China, Japan, Iran, South Korea
Argentina	********* ***************************	Brazil, Indonesia
Ukraine	.5.5 €	Middle East, North Africa
Kazakhstan	👙 💐 💐 💐 5.0	South East Asia, China
Russia	₿₿₿₿₽ 4.0	Egypt, Syria, Iran, Libya

- 1. Which countries imported wheat from Argentina? (*exported*) Argentina **exported** wheat to Brazil and Indonesia.
- 2. Which of these countries sent the most wheat? (largest exporter)
- 3. Which country sent wheat to Egypt? (exported)
- 4. Which countries were selling wheat to China? (exporting)
- 5. How much wheat did Ukraine send overseas in 2010? (exported)
- 6. What is one thing that Canada sends overseas to Japan? (exports, noun)

To *publish* something means to make it available to the public. Copies of books, magazines, newspapers, music, and computer software are some things that are published. A *publisher* is a person or company that produces the work.

The Los Angeles Times newspaper is published every day.

H. Look at the title page of this book and on the back of that same page. What is the name of the publisher of this book? In what year was the book published?

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Many automobiles are named for animals, such as Cougar or Jaguar. Would you buy an automobile named Turtle? How about Elephant? Why or why not?
- 2. What factors would you consider if you were responsible for naming a new product?
- 3. Does the name of a new product help you decide whether to try it? Why or why not?

READING 2

Read

This excerpt from a marketing textbook discusses the factors that go into choosing a good name for a new product.

What's in a Name?

ne of the most important tasks in marketing a new product is giving it a name. In marketing, the quality of a product is not as important as the quality of the name it is given. This is because marketing is not about the product; it is about *selling* the product. Marketers use strategies such as attractive packaging, catchy slogans, and other clever ways to **convince** consumers to buy their product. The most powerful marketing strategy, however, is giving a product a powerful name.

RULE 1

¹⁰ To be powerful, the name must be easy to remember. In the early days of computers, there were several competing brands on the market, including Apple II, Commodore Pet, IMSAI 8080, MITS Altair 8800, and Radio Shack TRS-80. In those days, most buyers knew very little about computers, so they were not able to judge the quality of one over the

¹⁵ other. As a result, they rejected the computers with complex names. Instead, they chose the brands that **invoked** something familiar. They chose, of course, the Apple II.

RULE 2

The name must also be easy to pronounce. If customers can't pronounce the name of a product, they won't buy it. A short name is easier to

²⁰ remember and to pronounce. According to research done by Strategic Name Development consultants, the best names have three or fewer syllables, such as Tums (antacid tablets), Xerox (copiers), or Cheerios (cereal). Many well-known names are longer, of course, such as Mercedes-Benz (automobiles) and Coca-Cola (soft drinks), so length is not the only factor.

RULE 3

²⁵ A product name should be unique. It shouldn't sound like the name of any other product, especially a competing product. Shoppers tend to confuse Breyer's Ice Cream with Dreyer's Ice Cream and Rolex (watches) with Rolodex (desk indexes), for example.

RULE 4

In addition, an effective name should hint at what the product is used for. ³⁰ For example, Sleepeez is a sleeping medication and Windex is a window cleaner. A name should also be appropriate for the type of product it represents. Names of medicines should sound medical, names of foods should sound tasty, and names of **domestic** cleaning products should sound hard-working.

RULE 5

- ³⁵ An effective name also includes words, or parts of words, that are positive and inviting.
 Sometimes, the product name sounds like another descriptive word that has a positive meaning. The pain reliever Aleve, for example,
- 40 sounds like "relieve." Band-Aid (a small plastic bandage) sounds a bit like "bandage" and includes the word "aid." Frequently, names of products aimed at high-income consumers implicitly advertise luxury. Consider the names
- ⁴⁵ of these cruise ship companies: Crystal, Princess, Royal Caribbean, and Celebrity.



RULE 6

The letters within names are important, too. A **survey administrated** by the above consultants asked English speakers about their reactions to various letters of the alphabet. The results showed that people associate

- the letters C, S, and B with something traditional, but associate the letters Q, V, X, and Z with something innovative. Additionally, people in the survey associated certain letters with one sex or the other. They considered the letters F, L, V, and W feminine, but the letters M, X, and Z masculine. It is not clear how those surveyed might react to the automobile names
 Volue Manda, or Lowye
- 55 Volvo, Mazda, or Lexus.

A product name should . . .

- 1. be easy to remember
- 2. be easy to pronounce
- 3. be unique
- hint at what the product is for
- 5. include positive words or word parts
- 6. contain effect letters
- 7. translate well into other languages
- 8. have no negative associations

RULE 7

Marketers must also consider how a product name will translate in other languages if the product is **exported**. A famous example of this occurred when the Chevrolet Nova automobile was **exported** to Argentina in the 1970s. Some people predicted that it would sell poorly because in Spanish

60 the two words "No va" mean "It doesn't go." Fortunately, "nova" (a bright

star) is the same word in both Spanish and English and the car sold well.

RULE 8

Finally, a name must not generate negative associations in the minds of consumers. Many

⁶⁵ words have an implicit message as well as an
 explicit meaning. Why, for example, has no car manufacturer named a car the Elephant?
 Elephants are big, strong, and dependable, but they are also slow-moving, huge, and eat a lot.



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⁷⁰ There used to be a weight-loss product called Ayds. It disappeared once AIDS became a serious illness worldwide.

Corporations put forth great effort to find the right name for a new product. They often hire consultants who specialize in creating product names. Working with the principles above, they create several

⁷⁵ possible names. Then, they channel the names through one or more focus groups. These groups are made up of individuals drawn from the sector of the population that is most likely to buy the target product, such as, sports fans, frequent travelers, or senior citizens. When a focus group meets, they freely discuss what they like or don't like about the
⁸⁰ possible names.

Once the right name is chosen, advertisements are widely **published** to introduce the new product to the buying public. Only time will tell if the important marketing decisions made earlier will be effective in selling the product.

Reading Comprehension

Mark each sentence as T (True) or F (False) according to Reading 2. Use your dictionary to focus on the meaning of new words.

- ____1. A powerful name helps convince consumers to buy a product.
- _____2. Early computer buyers chose a brand name that invoked high-tech innovation.
- _____ 3. The names of domestic cleaning products should sound hard-working.
- _____4. Many words have an implicit message as well as an explicit meaning.
- ____ 5. A survey administered by naming consultants showed that product names spelled with an X are considered innovative.
- ____ 6. A product name must be changed if the product is exported to other countries.
- ____ 7. High-income car buyers would be likely to buy a luxury car named Elephant.
- 8. Naming consultants channel possible product names through focus groups drawn from the sector of the population most likely to buy the target product.

READING SKILL

Scanning



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APPLY

- A. Scanning is useful for finding examples. Scan Reading 2 to find this information.
 - 1. the number of product names that include an X: _____
- 2. the number of product names that include a V:
- 3. the number of product names that include a Z:

B. Scan the article again to find out what kind of product each of these is or was.

- 1. Celebrity _____ 6. Windex
- 7. Cheerios _____ 2. Pet _____
- 3. Aleve _____ 8. Nova _____
- 4. Rolodex ______ 9. Tums _____
- 5. Ayds ______ 10. Breyer's _____

REVIEW A SKILL Finding the Main Idea (See pp. 21, 29)

In the first paragraph of Reading 2, find the sentence that states the main idea of the article. Look at the first sentence of the following paragraphs. How is each one related to the main idea of the article?

Vocabulary Activities STEP I: Word Level

To *invoke* can mean simply to ask for help or support from someone. More commonly, it is used when someone wants to mention or quote an authority to support an action or opinion.

The author invoked the works of leading scholars to support his arguments.

Advertisements often invoke the authority of powerful people or institutions to convince customers to buy their product.

The ads for the new dictionary invoke the authority of professors from several universities.

CORPUS

- A. With a partner, decide what product each advertisement might be for. What sector of buyers is the ad probably targeting? What authority does each ad invoke? Then think of another type of product and write an ad for it together. Be sure to invoke a convincing authority.
 - 1. "When the Olympic hockey team needs a burst of energy, they grab a Champ and keep on going!"

Product:

Sector: ___

2.	"Celebrity chef Michelangelo Sotto uses only the best ingredients in his spaghetti sauce. That's why he uses new <i>Multo</i> , <i>Multo</i> ."
	Product:
	Sector:
3.	"Scholars and academics across the country turn to WordPower-because accuracy matters."
	Product:
	Sector:
4.	"The Association of Children's Dentists recommends <i>Glisten</i> over all other competitors."
	Product:
	Sector:
5.	"Professional race car drivers depend on <i>Nexosol</i> —the fuel of champions!" Product:
	Sector:
6.	Product:
	Sector:
	Ad:

B. Imagine that you are completing a survey to be part of a focus group. The marketing consultants want to find out about you so they can channel you to the right group. Create an imaginary person and complete this application with imaginary information. Mark your answers with an X.

Age	Sex	Income	Education	Home
□ Under 20	□ Male	□ Under \$30,000	Elementary School	□ Owner
□ 20–25	□ Female	□ \$30,000-\$50,000	Secondary School	□ Renter
□ 25-40		□ \$50,000-\$75,000	□ University	
□ 40–60		□ over \$75,000		
□ over 60				

A message that is *explicit* is one that is clearly and directly stated. An *implicit* message is one that is not directly stated.

Explicit message: Go home.

Implicit message: It's getting late. Let's talk more tomorrow.

CORPUS

C. Imagine that you are meeting with clients who are important to your advertising business. Everyone wants to be polite. With a partner, match the *implicit* statement on the left with the *explicit* message that has the same meaning.

- ____1. Excuse me for yawning.
- ____ 2. It's a little cold in here.
- _____ 3. Let me review the costs.
- _____ 4. Shall we break for lunch?
- ____ 5. I want to think about that.
- ____ 6. Is this date correct?

- a. Don't open that window.
- b. You made a mistake.
- c. I don't know the answer.
- d. That's too much money.
- e. I'm bored. / I'm tired.
- f. I'm hungry.

Vocabulary Activities STEP II: Sentence Level

Domestic refers to the home and family or to a home country. It can be used in many different contexts. The adjective is *domesticated*.

Those items are necessary to satisfy his family's basic **domestic** needs. **Domestic** postal rates are lower than overseas rates. My country exports 25% of **domestically** grown fruits and vegetables. Scientists say that **domesticated** animals live longer than wild animals.

- **D.** Rewrite these sentences in your notebook using a form of *domestic*. Compare sentences with a partner.
- 1. Few families can afford to hire someone to help with household chores. Not all families can afford to hire someone to help with **domestic** chores.
- 2. Farmers often have many tame animals, such as sheep and goats.
- 3. Every summer our store has a sale on products for the home.
- 4. You should arrive at the airport two hours before flights within the country.
- 5. Coffee must be imported from other countries because it is not grown here.

To *administer* means to control and manage the giving of something. For example, a doctor administers medicine to patients, or a teacher administers a test to students.

The most common usage of this word family, however, is for business and politics:

administrator	a manager in a company, organization, or government
administration	the work done by administrators
the administration	the group of people managing an organization or government

The school **administrator** was pleased with the success of the innovative programs she has implemented across the city.

The director oversaw the administration of the new safety rules.

The administration has been criticized for wasting taxpayers' money.

Administrative refers to the work of administering services, or office work in general. Administratively is the adverb.

The chief of police has an **administrative** role in the police department. My brother is the **administrative** assistant for the whole department. The fire department is **administratively** separate from the city government.

CORPUS

CORPUS

E. Read the chart showing some of the employees of Black's Button Company. Then answer the questions that follow in your notebook. Include the form of *administer* indicated in each sentence.

Name	Title	Area of Responsibility
Jerry Green	Plant Manager	safety and maintenance of the factory
Marie Brown	Administrative Assistant	secretary to Fred Black
Fred Black	Chief Executive Officer	operation of the entire company
Ellen White	Marketing Director	marketing
Jane Gray	Human Resources Director	employment office

- 1. What does Marie Brown do? (*administratively*) She assists Mr. Black **administratively**.
- 2. Who is Fred Black? (administrator)
- 3. What does Ellen White do? (administrative responsibility)
- 4. What does Jane Gray do? (administers)
- 5. What does Jerry Green do? (administration)
- F. Which of the jobs in the chart in activity E would you be best at? Why? What are your administrative strengths and weaknesses? In your noteboook, write a short paragraph in which you explain your answers. Be prepared to present your work in class.
- **G.** Self-Assessment Review: Go back to page 33 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Reading 2 mentions several rules for naming a product. Think of some successful products whose names do not follow these rules. Why do you think they are successful anyway?
- 2. Describe an advertisement that you like from a magazine. What sector of the public do you think is the target market? How does this ad try to convince the target market to buy the product? Is it innovative in some way? If so, how?
- 3. Think of the many ways that a product could be advertised, such as on TV or in a magazine, for example. What are the advantages of each way?



SOCIOLOG

Identifying People

In this unit, you will

- read about the importance of titles in identifying people.
- review scanning a text.
- increase your understanding of the target academic words for this unit.

READING SKILL Identifying Examples

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

	TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in <i>either</i> speaking or writing	used the word confidently in both speaking and writing
~	acquire						
	ambiguous					of the second of the	e
	analogy					out another wear	
~	civil						
	constitute						
P	context					cien Dr. Alemen	inerested
	convene						
	differentiate						ann a l
~	index						
	integral			an ann an		an granten av d	hannan (
8	military					torne preco e vol	None and American
2	somewhat						was seen.
P	style			N & CAMBRELINS		in water carrier	CONTRACT 1
2	via whereby			e		a destruction of a	

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READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Do you have a nickname? Who calls you by this name?
- 2. If you had a problem at school or at your job, who would you ask for help?
- 3. Name some people in your neighborhood that wear uniforms.

Read

This excerpt from a sociology textbook discusses group membership.

Who Are You?

Imagine that you read the following story in your local newspaper.

Yoshi Tanaka was injured at the Pacifica Café when the chair he was sitting on broke. Angelo Manzoli said his career is ruined. Carlos Armada claimed that Tanaka was to blame. Fred

5 Katz said his crew helped transport the 450-pound man to a hospital. Ahmed Nadel said Tanaka was not seriously hurt.

Who are these people? If we give each a title, the **ambiguous** story becomes easier to understand.

Sumo wrestler Yoshi Tanaka was injured at the Pacifica Café when the chair he was sitting on broke. His trainer, Angelo Manzoli, said his career is ruined. Carlos Armada, owner of the café, claimed that Tanaka was to blame. Fire Chief Fred Katz said his crew helped transport the 450-pound man to a hospital. Physician Dr. Ahmed Nadel said Tanaka was not seriously hurt.

GROUPS

¹⁵ Throughout our lives, and even during a single day, we are part of many groups. These groups might include a family, an orchestra, a team, a business, a school, a country, or even a temporary group such as the people affected by a café accident.

TITLES

Within a group, titles help **differentiate** one person from another. Each ²⁰ person is an **integral** part of many different groups, so each person has many titles. For instance, a man might be an engineer, a husband, a father, a son, a brother, the coach of his son's baseball team, a tennis club member, a conservative voter, and an Internet chat room visitor. The title *engineer*

defines his status within the context of employment. The titles husband, 25 father, son, and brother define his status within the context of family.

ADDRESSING OTHERS

Titles also provide guidelines whereby people know how to address others. At work, the engineer's co-workers call him Jim, but people who phone his company will ask to speak to Jim Wilson. His wife calls him Honey, and his children call him Dad. His mother still calls him Jimmy, a childhood nickname, 30 and his brother affectionately calls him Jimbo. The baseball team kids call him Coach Wilson. His tennis partner calls him Wilson. Mail he receives from his political party is addressed to Mr. James Wilson. On the Internet, he's

CULTURAL DIFFERENCES

known as J.W.

JOB TITLES

Rules for how people address each other vary from one culture to another. In 35 Japanese culture, for example, only family and close friends call someone by his or her given name. It is considered rude to call someone by just his family

- name. A family name must be followed by the title -san, so Mr. or Ms. Tanaka is known as Tanaka-san. When addressing someone of a higher status, often no name is used. Instead this
- 40 person is addressed by his or her title, such as teacher or company president.

The title company president clearly refers to the leader of a company. Among its employees, a company differentiates between the types of workers via job 45 titles like lab technician, secretary, or department

supervisor. A person's job title also serves as an index (or measure) of his or her status within the company. Employees with a higher status are usually paid a higher salary. Similarly, if an employee earns a raise in 50 salary, he or she is often given a new job title.

LEADERS' TITLES

The leader of a group of people almost always has a title. For instance, clubs have presidents, teams have captains, committees have chairmen or chairwomen, stores have managers, fire

- 55 departments have chiefs, and schools have principals. Every civil leader has a title, too, though these vary somewhat depending on a country's system of government. These titles include prime minister, president, governor, sultan,
- 60 and king. When official meetings convene, the leaders are addressed in a formal style, such as Madam President or Governor Ramos.

Job Posting		
TITLE	LOCATION	POSTED
President Construction	Dubai	1 day ago
Secretary Marketing	New York	2 days ago
Lab Technician Pharmaceutical	Tokyo	5 days ago
Accounts Manager Advertising	London	1 week ago
Art Director Publishing	Frankfurt	2 weeks ago
Analyst Media	Madrid	3 weeks ago

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Chancellor Angela Merkel and Prime Minister Sheikh Hasina

INHERITED TITLES

Some titles are **acquired** by inheritance. These include the royal male titles *king*, *emperor*, and *sultan* and their **analogous** female

⁶⁵ titles queen, empress, and sultana. Leaders of tribes and clans may inherit titles such as khan, sheikh, and chief. A given name plus the inherited title usually **constitute** their public names, such as King Faisal or Queen Elizabeth. Often they are addressed in special ways, like Your Highness.

MILITARY TITLES

⁷⁰ Titles are especially important in the **military**, where authority is channeled from top to bottom **via** a strict chain of command. A common ranking system in armies begins at the top with the title *field marshal* or *general*, and ends with the lowest rank of *soldier*.

Titles are important tools that help us understand the status of members ⁷⁵ within human groups.

Reading Comprehension

Mark each sentence as *T* (true) or *F* (false) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____1. The acquired title king for a man is analogous to the title queen for a woman.
- ____ 2. The title *engineer* defines a person's status in the context of family.
- _____3. Titles provide guidelines whereby people know how to address others.
- _____4. Each person is an integral part of many different groups.
- ____ 5. Titles are somewhat important in the military.
- ____6. Companies differentiate between types of workers via job titles.
- ____7. When official meetings convene, civil leaders are addressed in a formal style.
- ____ 8. A given name plus an inherited title constitute the public name of Queen Elizabeth.
- ____9. The titles *field marshal* and *general* are ambiguous.
- ____10. A job title is an index of an employee's status in a company.

READING SKILL

Identifying Examples

LEARN

One way that writers make their ideas clear is by giving examples. Sometimes an entire text is made up of examples, with each paragraph giving a different kind of example to support the main idea of the reading. There might also be several examples within one paragraph to help explain the ideas in that paragraph.



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Reading 1 uses examples in both of these ways. You can identify examples in a text by looking for certain signals. Here are some common words and phrases that signal examples:

for example	for instance
including	these include
like	there are many kinds of

such as one is... another is...

APPLY

Refer to Reading 1 to answer these questions.

- 1. What kinds of examples are discussed in the paragraph titled "Groups"?
- 2. What words are used to introduce the examples in the paragraph titled "Groups"?
- 3. What signal words are used in the paragraph titled "Cultural Differences" to introduce the examples?
- 4. What signal words are used in the paragraph titled "Job Titles" to introduce the examples?
- 5. What signal words are used in the paragraph titled "Leaders' Titles" to introduce the examples?

REVIEW A SKILL Scanning (See p. 36)

Scan Reading 1. How many times does the word *president* occur? Scan the paragraph titled "Addressing Others". How many different names does the engineer have?

Vocabulary Activities STEP I: Word Level

A. Use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

acquired	context	integral	via	
constituted	conventional	somewhat	whereby	

In 1849, thousands of people went to California in search of gold, hoping to get rich. Levi Strauss, a cloth salesman, went there, too. He hoped to get rich, but in a different way. When the gold miners complained that their pants tore easily, Strauss made them pants out of strong denim cloth. The men liked the pants, but the pockets kept tearing. This $\underline{\qquad}_{(1. made)}$ a problem, but a tailor had an idea

the pockets could be made stronger with copper rivets.

(2. by which)

53

Strauss and the tailor soon became rich—not from gold, but from inventing jeans.						
For the next 100 years, jeans were worn mostly by farmers or factory workers. In						
the 1950s, young people began wearing je	ans. As a gr	oup, they made a strong				
statement against dre	ess	their jeans				
(3. standard) because jeans were considered improper h						
became more accept 1970s, they fashion s (7. earned)	able. In the	(6. setting)				
1970s, they fashion s	status. Today	, jeans are an				
(8. necessary) part of the wardrobe	e of many yo	oung people.				
Somewhat has the same meaning as "sort	t of" or "a li	ittle bit."				
l agree somewhat with what you're sayir	ıg.					
His trousers were somewhat wrinkled, a	nd his shirt v	was torn.				
		CORPUS				
B. With a partner, match the person on the	ne left with v	what he or she claims to				
be "somewhat of an expert" on. Write						
sentences with the information.						
1. I eat out every week	restauran					
I eat out every week, so I'm somewhat						
2. I've traveled overseas twice	literature					
3. I used to play the piano	cars					
4. My father is a mechanic	airports					
5. I used to work in a bookstore	music					
Via means "passing through" or "by way	of a place.'	2				
I'll fly from here to Berlin via Paris.						
It can also mean "by means of" or "using	It can also mean "by means of" or "using."					
Relatives who live far from each other ca	n keep in to	uch via email.				
		CORPUS				
C. Imagine that you are the president of a	a larga comu	any. Py what means would				
you communicate each of these mess	1. The second					
messages on the left with the means of	on the right.	Then tell a partner the				
reasons for your answers.		a wie a stieler sate				
	1. We've had a dangerous chemical spill. a. via a sticky note					
2. You haven't been doing your job. You're fired.b. via email 3. Please sign this form and return it to me.c. via telephone						
4. There's a manager's meeting at 8 a.m. d. via a face-to-face						
tomorrow.		discussion				

____ 5. Please come to my office right away.

e. via the company newsletter

CORPUS

CORPUS

- ____ 6. Congratulations to Harry Chan on his new baby.
- f. via the public address system

People in a society can be divided into two sectors: *military* and *civil*. Members of the army, navy, and air force constitute the **military** sector. Ordinary citizens constitute the **civil** sector.

- **D.** With a partner, decide whether these are military or civil titles. Write *M* for military and *C* for civil.
 - ____ police chief ____ general ____ prime minister
 - ___ lawyer ____ manager ____ field marshal
 - _____ soldier _____ fireman _____ lieutenant

Vocabulary Activities STEP II: Sentence Level

To *differentiate* one thing from another means "to create a difference between them," or "to see the difference."

Universities differentiate between sports for men and sports for women.

It's hard to differentiate one brand of coffee from another.

The noun form is differentiation.

Differentiation between military ranks is shown by stripes on uniform sleeves.

- E. In your notebook, rewrite these sentences to include the given form of differentiate.
 - 1. In most cultures, given names show a difference between males and females. (*differentiate*)
 - 2. Often there is no change in the civil titles of males or females. *(differentiation)*
 - 3. Civil titles help separate ordinary citizens from people in authority. (*differentiate*)

Something that is *ambiguous* is not clear in meaning, often because there is more than one possible meaning. For example, the newspaper headline "Hospital Begins Operations" is *ambiguous*. The *ambiguity* is caused by the word "operations," which has more than one meaning. "Operations" can refer to either medical surgery or services.

The headline can be rewritten to clarify the writer's meaning. Two unambiguous headlines are "Hospital Begins Surgery" and "Hospital Opens for Service."



- F. Read these ambiguous newspaper headlines. Each has two meanings. With a partner, discuss why they are ambiguous. Then in your notebook, write two unambiguous sentences that show the two meanings.
- 1. President Enjoys Visiting King

The president enjoys going to visit the king.

The president enjoys having the king visit him.

- 2. Rare Monkey Eats Carrots and Flies
- 3. Bus Riders Miss Planes
- 4. Entertaining Actors Can Be Expensive
- 5. Biting Frogs Found Harmful

To *convene* means "to meet or come together, usually for an official or formal meeting." The noun form is *convention*.

The parliament convenes each morning at 10 a.m.

I'll attend a medical convention in Tokyo next month.

Convention can also mean a tradition or a standard way of behaving.

The Western convention is for a married woman to take her husband's surname.

Something *conventional* is traditional or standard, while something *unconventional* is unusual and often disapproved of.

Teenagers sometime surprise adults with unconventional ideas.

You should dress **conventionally** when you apply for a job.

CORPUS

- **G.** Write the answers to these questions in your notebook. Write in full sentences and use the word in parentheses.
- 1. Describe a common wedding tradition practiced in your family. *(conventionally)*
- 2. Describe how students at your school address their teachers. (conventional)
- 3. Describe where students at your school gather for meetings. (convene)
- 4. Describe a standard way that people greet each other. (convention)

Whereby means "by which" or "because of which." It is a formal way to connect two ideas. The first idea describes an action and the second part shows the result of the action.

Nancy went on a strict diet, whereby she lost 35 pounds.

Note that whereby connects two full clauses.



- H. In your notebook, complete each of these sentences with a full clause that begins with the word *whereby*. Use the story about Yoshi Tanaka at the beginning of Reading 1 as a source of ideas.
- 1. Yoshi Tanaka's chair broke, whereby he _____fell on the floor
- 2. His manager saw tears in Yoshi's eyes, whereby the manager knew____
- 3. The owner of the cafe claimed that Yoshi was to blame, whereby the owner avoided______
- 4. Fred Katz's crew lifted Yoshi onto a fire truck, whereby they were able

5. A hospital technician took X-rays, whereby the doctor _

The *style* of something is the way that it is done, designed, or presented.

I don't like the style of that shirt.

Her style of writing is very easy to follow.

Style usually refers to things that are created, such as a style of art, architecture, music, singing, dancing, writing, etc.

Something that is *in style* is currently popular. Something that is *out of style* is no longer popular. Fashionable clothes are said to be *stylish*.

The verb to style means to arrange someone's hair in an attractive way.

I had my hair cut and styled yesterday.



I. On a separate piece of paper, write a sentence about someone's style of doing something that you like. Tell why you like it. Write another sentence about someone's style of doing something that you do not like. Tell why you do not like it. Choose from these topics: teaching, cooking, singing, talking, playing a sport, or choose one of your own.

READING 2

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Before You Read

Read these questions. Discuss your answers in a small group.

- 1. What jobs or social roles require people to wear special clothing?
- 2. What clothes do you associate with royalty (kings and queens, etc.)?
- 3. A flag is one symbol of a nation. What are some other things that can be used as symbols of a nation?

Read

This excerpt from a social science textbook is about the significance of clothing in a culture.

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Symbolic Clothing

How in the set of the

⁵ the bigger his umbrellas, the more power the owner appeared to have. It seems odd to us today that such an everyday object could have once been used to **differentiate** rulers from ordinary people. Yet at that time, an umbrella was an **unambiguous** symbol of

power. Similarly, contemporary cultures

¹⁰ today employ many common items, including clothing, as symbols of social status.

IN UNIVERSITIES

The academic cap and gown is one example of symbolic clothing. Hundreds of years ago, university students were required to

¹⁵ wear long, black robes. Today academic robes are usually worn only for graduation ceremonies, along with a special cap. Many universities have developed their own traditional **style** and color of cap and gown.
²⁰ For example, at some universities, students



wear a close-fitting cap topped by a flat square. A tassel, which is a bundle of long silk strings, hangs from the square. By **convention**, students begin the graduation ceremony with the tassel hanging from the left side of the square. Once a university administrator declares that the students have

officially graduated, they move their tassels to the right side of the square to indicate their new change of status. Graduating students also wear collars or sashes of cloth over their gowns, whereby their field of academic specialization is indicated via color. These colors vary among universities

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and countries. For example, in Spain a gold cloth symbolizes medicine, ³⁰ while in the United States a green cloth symbolizes medicine.

IN CIVIL COURTS OF LAW

For example, in the **civil** courts of law in many countries, judges wear long robes, usually black, that cover their ordinary clothing. The robes identify the judges' role in the courtroom and symbolize their authority to administer justice. The gavel that judges rap to **convene** court and maintain

³⁵ order is another such symbol of authority. In Britain and in most Commonwealth nations, judges and certain court officials also wear white wigs that symbolize their roles.

AMONG ROYALTY

Similarly, the ceremonial clothing of kings and queens is symbolic of their royal status. The most common symbol of royal status is a crown. The 40 crown is placed on the head of the new monarch during a formal

ceremony. He or she usually wears a beautiful cape made of fur, feathers, or delicate material for the event.

WEDDING SYMBOLS

A wedding, too, is a change-of-status ceremony. Traditional clothing is usually an

- ⁴⁵ integral part of the ritual. In a conventional Western wedding, the bride wears a long, white dress. She also wears a white veil on her head and carries a bouquet of flowers. Her clothing and various accessories (which
- ⁵⁰ may be hidden) constitute traditional good-luck items that a bride should wear. These include "something old, something new, something borrowed, something blue, and a lucky penny in her shoe." An important part
 ⁵⁵ of the ceremony is the exchange of wedding



rings. These circles of gold or silver have no ending, and symbolize the lifetime relationship the bride and groom are about to begin.

The symbolism of the white wedding dress is so strong that brides from many non-Western cultures have chosen to include such a dress in their

⁶⁰ weddings. An Asian bride, for example, might wear a red gown during a traditional wedding ceremony and then change into a **stylish** white wedding dress for the celebration that follows.

UNIFORMS

A uniform identifies the occupation and status of many workers. In the civil sector of society, for example, police officers and fire fighters wear ⁶⁵ uniforms. So do waiters and waitresses, airline pilots and cabin stewards,

and nurses and dental assistants. With the exception of fire fighters, these people could do their jobs just as efficiently in ordinary clothing. A uniform, however, serves two important purposes. First, a uniform **differentiates** these workers from other people. A uniform is one way 70 **whereby** the workers can be easily identified by others. Second, a uniform
is a symbol of authority, which gives people confidence in the workers. Another item of clothing that is **somewhat** of a uniform is the tall, white hat worn by chefs. This hat **conventionally** symbolizes the chef's position of authority in the **context** of a restaurant kitchen.

- Military personnel, too, wear uniforms, but different types. One type is for everyday wear, and another is the formal uniform worn for military ceremonies. A third type is worn in battle. Military uniforms serve several symbolic functions. First, the various decorations on a uniform jacket and hat are indexes of a member's rank in the
- ⁸⁰ military. Second, uniforms encourage members of a group to acquire a sense of unity and pride. Finally, in the context of a battle, uniforms become symbols of the nation the soldiers are defending.

Symbolic clothing can symbolize many things, including authority, nationality and change of status. Often the original significance of the

so clothing has been forgotten or has changed over time, yet societies continue to respect the conventional symbolism. Other clothing, such as the white wedding dress, became symbolic somewhat recently, yet is still considered traditional. The objects and clothing that become important symbols in a culture are determined by the special meaning that people give them.

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Reading Comprehension

Mark each sentence as *T* (true) or *F* (false) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- 1. Hundreds of years ago, the umbrellas that kings, sheikhs, and popes acquired became indexes of their high positions in society.
- 2. Sometimes ambiguous symbols of power are used to differentiate between rulers and ordinary people.
- ____ 3. The gavel that judges rap to convene sessions in a civil court of law is a symbol of the nation they represent.
- 4. Graduating students wear collars or sashes over their academic gowns, whereby they indicate their change of status via color.
- 5. A long white dress and a white veil constitute the wedding clothing of a traditional Western bride.
- 6. In some cultures, the Western wedding dress is becoming an integral part of non-Western weddings.
- ____7. In the context of a battle, uniforms become symbols of military rank.
- ____8. The symbolism of some ceremonial clothing is somewhat recent.

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READING SKILL

Identifying Examples

APPLY

Refer to Reading 2 to answer these questions.

1. Reread the first paragraph of Reading 2. Find the sentence that tells you the main idea of the article, and write it here.



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2. Each paragraph in the article discusses a different example of symbolic clothing. Who wears the symbolic clothing mentioned in each of these paragraphs?

Paragraph 2	Paragraph 5
Paragraph 3	Paragraph 7
Paragraph 4	Paragraph 8

- 3. Paragraph 3 gives two examples of symbols of authority. What are they?
- 4. What three items constitute the traditional clothing of a bride in a Western wedding?
- 5. In Paragraph 8, what words introduce three kinds of military uniforms?
- 6. What words introduce the three symbolic functions of military uniforms?

Vocabulary Activities STEP I: Word Level

Sometimes creating an analogy takes imagination.

Some people see an analogy between the features on the outside of a house and a face. The windows are analogous to eyes, for example.

- A. How is an automobile like a person? With a partner, create analogies by matching each car part in the left column with an analogous body part on the right. Take turns saying those analogies.
- <u>1</u>. gasoline a. food Gasoline is analogous to food.
- 2. windshield b. feet ____ 3. driver c. heart ____4. tires d. brain ____ 5. engine e. stomach f. eyes
- ____ 6. gasoline tank

CORPUS

An *index* is an indication or a measurement of something.

The consumer price **Index** shows changes in the prices of products over time.

The *index* of a textbook helps readers locate information in the book.

Check the **index** of your science text to see if it covers cell division.

Note: Indexes is the common plural form, but sometimes indices is used.

CORPUS

- **B.** Read these statements about an imaginary country. What might each statement be an *index* of? Discuss your answers in a small group.
 - Most people live to be 75 years old or more.
 This might be an *index* of good medical care in the country.
 - 2. Most children of the residents go to college.
 - 3. Almost every adult of working age has a job.
 - 4. Ninety percent of the adults vote in elections.
- **C.** When something is an *integral* part of a whole thing, it means that it is a necessary or required part. Complete these sentences. Refer to the information in Reading 2. Compare answers with a partner.
 - 1. In some cultures, ______ is an integral part of the ceremonial clothing.
 - 2. Changing the ______ is an integral part of a graduation ceremony.
 - 3. Exchanging ______ is an integral part of a Western wedding.
 - 4. _____ has become an integral part of some non-Western weddings.

Vocabulary Activities STEP II: Sentence Level

Noun	Word Fo	orm Chart Adjective	Adverb
context	contextualize	context contextualized	

One meaning of *context* is the "circumstance or situation in which something occurs."

A judge's robe is a symbol of authority only in the **context** of a courtroom.

Context can also refer to the words and ideas in a text that help readers understand new or ambiguous words. Good readers use *context clues* to help them understand new or ambiguous words in a text. It is hard to learn new words in a list because the words are not *contextualized*.

In Reading 2, the context clues—academic clothing, graduation ceremony, cap—help you understand what the word "tassel" means.

- **D.** Write a sentence describing the appropriate clothing to wear in each of these contexts. Use the word *context* in your sentence.
 - interviewing for a job
 It would be appropriate to wear a suit in a business context.
 - 2. attending a wedding as a guest
 - 3. eating dinner at an informal restaurant
 - 4. attending a nephew or niece's high school graduation ceremony
 - 5. going hiking in the mountains
- **E.** Each of these words has more than one meaning. Consult your dictionary to find the different meanings. Then write a sentence in your notebook that provides a context explaining <u>one</u> meaning of each word. Compare sentences in a small group.
 - 1. refrain

The guitarist sang the verses of the song and asked the audience to sing the **refrain** after each verse.

- 2. game
- 3. orange
- 4. gag
- 5. pale

The verb *constitute* means "to make up or form something." The adjective form is *constituent*.

Nine players constitute a baseball team.

The **constituent** parts of a business suit are a fitted jacket and matching pants.

- F. In your notebook, write sentences that tell the constituent parts of each of these things. Compare your answers with a partner.
 - 1. a textbook3. a computer
 - 2. an orchestra 4. a burger

The verb *acquire* means "to obtain or gain something." You can acquire something physical (books, property, etc.) or abstract (knowledge, a skill, a habit, etc.).

- I acquired an antique violin recently.
- I acquired a good education in my small-town school.

The noun form is acquisition.

The violin is my most valuable acquisition.

The acquisition of a second language is not easy.

- **G.** In your notebook, write a short paragraph about a real or imaginary trip that you took to a foreign country. Name at least four things that you acquired on your trip. Include the word *acquisition*. Be prepared to present your work in class.
- **H.** Self-Assessment Review: Go back to page 49 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. What are some other groups of people (not described in this unit) that wear uniforms or special clothing? Describe what they wear and why.
- 2. Describe a special ceremony that you attended, such as a wedding or graduation. Describe who took part in the ceremony and what they wore. Were any symbols a part of the ceremony?
- 3. What are some reasons why sports teams wear uniforms?



PSYCHOLOG

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Success Story

In this unit, you will

- read about the meaning of success and what factors contribute to it.
- read about a personality trait related to success.
- review finding main ideas.
- increase your understanding of the target academic words for this unit.

READING SKILL Identifying Definitions

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in <i>either</i> speaking or writing	used the word confidently in both speaking and writing
AWL				CONTRACTOR OF THE		
aware						Statement of the state
coincide						All the second
Colleague				www.initediatescom		
& demonstrate						1990 (2010) 11 (2010) 11 (2010) 12 (
dominate						011100000000000000000000000000000000000
dynamic						
🞤 exploit						
generate				No. of the second		
🖗 inhibit				state beloca	The goal allow	Street St
🞤 media					provide the set	
📌 positive						
🗞 professional						
role					a ai goibheana .)	ین ریان ایرالیان



Outside the Reading What do you know about success? Watch the video on the student website to find out more.

Oxford 3000™ keywords

READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. How would you define success?
- 2. Are all famous people successful? Are all successful people famous? Give examples to support your opinion.
- 3. Name some people you consider successful. Why do you consider them successful?

Read

000

This article discusses important information about how to be successful. It defines success and explains what it takes to achieve it.

WHAT IS SUCCESS?

hat is success? is it wealth? Fame? Power? We tend to think of success as something unusual, something that requires special talents to achieve. That's because stories in the **media** about successful business executives, **professional** golfers, glamorous movie stars, best-selling authors, and powerful politicians lead us to believe that only a few special people are successful. We may

¹⁰ not hear about them, but ordinary people can be successful, too. Success is about reaching for something—and getting it. It is about having something you didn't have before. It is about **attaining** something that is valued by others.



Success requires ambition and hard work.

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SETTING GOALS

¹⁵ Success begins with a clear goal, and **attaining** that goal requires ambition. Ambition is the energy that drives people to work hard, to learn more, and to seek opportunities to advance themselves. Some people have a clear goal, but they lack the ambition to make their dream come true. Other people have great ambition but no 20 clear goal to work toward. They start one scheme after another but never seem to find success.

THE NEED FOR PERSISTENCE

All children begin life with great ambition. Consider the ambition that babies **demonstrate** as they try to sit up, crawl, and walk. Despite repeated failures, they keep trying until they succeed.

²⁵ What makes them keep trying? Persistence. This is the ability to focus on a task despite interruptions, obstacles, and setbacks. Persistence is strong throughout childhood. During the teen years, however, a fear of failure or a fear of being laughed at by



others for trying to "be somebody" may **inhibit**, or stop, their ³⁰ persistence. As a result, many teens seem to just quit trying.

THE ROLE OF PARENTS

If parents are **aware** that a lack of ambition is common in teenagers, they may be able to minimize it by providing **positive** learning experiences in the early years. For example, parents can encourage their young children to take on challenges, praise

them for trying, and comfort them if they fail. One of the strongest influences on a person's ambition is the family. It is not a coincidence that successful parents tend to raise successful children. However, is this due to heredity or upbringing? Evidence suggests that both play a role in 40 determining ambition.

THE ROLE OF ECONOMIC STATUS

The economic status of a family also influences a person's level of ambition. Young adults who grew up in poor families may be more focused on meeting the needs of today rather than reaching for the dreams of tomorrow. Or they may have great ambition but

⁴⁵ lack the means to reach their goals. In contrast, ambition may be unnecessary for those who grew up in rich families because, at least financially, they are already successful. Not surprisingly, ambition seems to **coincide** most often with middle-class status. Although financially secure, middle-class

50 families may not feel socially secure. This status anxiety fuels the ambition needed to reach for success.

THE ROLE OF PERSONALITY

Despite their backgrounds, it is people with **dynamic** personalities who are most likely to

55 succeed. These are people who don't wait for things to happen; these are people who take effective action to <u>make</u> things happen. With their eyes on the future, their goals **dominate**



Each person has a different definition of success.

the choices they make. They learn the skills they will need through education or training. They **exploit**—that is, take advantage of—opportunities to broaden their knowledge through experience and observation. They seek assistance from anyone who might further their chances to succeed, including family members, friends, coaches, and **colleagues**.

ATTAINING SUCCESS

⁶⁵ And finally success is very likely to happen for these dynamic people. For each person it will be different, though, because individuals generate their own definitions of success. So he or she will get the job, win the race, earn the diploma, start the business, or climb the mountain—and the goal will become a reality.

Reading Comprehension

- **A.** Mark each sentence as *T* (True) or *F* (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.
- 1. Stories generated by the media demonstrate that ordinary people can be successful.
- ____ 2. Family plays a major role in influencing a child's level of ambition.
- _____ 3. The teen years often coincide with a fear of failure and a lack of ambition.
- _____ 4. Positive learning experiences in the early years can inhibit persistence.
- ____ 5. Dynamic people are aware that they must take effective action to attain success.
- ____ 6. Despite their backgrounds, professional people are the most likely to succeed.
- 7. Meeting the needs of today may dominate the thoughts of a young adult who grew up in a poor family.
- ____ 8. People seeking success might ask colleagues to assist them.
- ____ 9. One way to prepare for success is to exploit opportunities to learn through observation.

B. With a partner, decide which of these qualities contribute to success, according to Reading 1.

middle-class status

_____ a clear goal

____ persistence

____ a coincidence

dreams of tomorrow

focus

____ repeated failures
____ a dynamic personality
successful parents

READING SKILL

Identifying Definitions

LEARN

The author of Reading 1 uses the entire passage to arrive at a full description of success. Each paragraph contains information that adds to the definition. Within the text, there are definitions of other words related to success. For some words, the author provides a definition; for example, *ambition* in paragraph 2. Other words are defined with a synonym; for example, *inhibit* in paragraph 3.

APPLY

Look back at Reading 1 to find definitions of these words. Write the definitions in your notebook.

- 1. ambition (paragraph 2)
- 4. dynamic people (paragraph 6)
- 2. persistence (paragraph 3)
- 3. inhibit (paragraph 3)
- 5. exploit (paragraph 6)

Vocabulary Activities STEP I: Word Level

A. Use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

attained	dominant	positive
coincided with	dynamic	professional
demonstrated	generating	was aware

As a boy, Lance Armstrong excelled in many sports. By his teen years, however, bicycling had become the ________ interest in his life. He easily won many local cycling races. But his goal was to be a ________ racer. In his first race, he finished last of 111 riders. He was discouraged and almost quit racing. Instead, he trained harder and soon _______ the rank of number one bicyclist in the world. But his success _______ (3. reached) a terrible illness. Lance, just 25 years old, was diagnosed with advanced cancer. After long and painful medical treatments, he was so weak that he again thought of quitting. He

this ________ that he might never recover from his illness, but once more work this _______ young man _______ amazing persistence,

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and he had a _________ attitude. He trained for two years, slowly regaining strength and ________ a new goal: to compete in the Tour de France bicycle race, one of the most demanding sports contests in the world. In 1999, Lance entered the Tour and won. He subsequently went on to win the Tour seven years in a row.

Lance officially retired from cycling competitions in early 2011. He heads the Lance Armstrong Foundation, which has raised millions of dollars for cancer research.

- **B.** A colleague is a co-worker, someone you work with. With a partner, match the worker in the left column with his or her colleague. Compare answers with a partner. Writing in your notebooks, take turns making sentences with the information.
- <u>a</u> 1. doctor a. nurse

A doctor and a nurse are colleagues.

<u>2. teacher</u>	b. principal
<u>3. manicurist</u>	c. publisher
<u>4. violinist</u>	d. waiter
5. chef	e. pianist
<u>6. author</u>	f. hair stylist

In this unit, the word *role* is used to mean "the position of importance of something."

Parents play a key role in the education of their children.

Exercise plays a role in staying healthy. Diet plays a role, too.

Role is also commonly used to refer to the part of a character in a film or play.

CORPUS

CORPUS

Several actors have played the role of Superman in films.

C.	Check (\checkmark) the factors that play a role when teenagers quit trying to succeed,
	according to Reading 1.

- _____ fear of challenge _____ fear of being laughed at
- ____ lack of persistence ____ lack of setbacks
- ____ fear of failure _____ lack of experience

Now, with a partner, think of at least two other factors that may play a role. Discuss your ideas in a small group.

The word *media* refers to the means of communication that reach many people, such as television, radio, and newspapers. *Media* is a plural noun. The singular form is *medium*, but this form is used less often. *Media* can also be used as an adjective.

The news **media** cover national elections closely. National elections get a lot of **media** coverage. Some actors think that theater is a more satisfying **medium** than television. **D.** With a partner, classify these examples of media. Write *N* for news media, *P* for print media, *V* for visual media, and *A* for advertising media. More than one answer for each item is possible.

books	magazines	radio
the Internet	newspapers	television

- E. To generate something means "to create, cause, or produce" it. What do these workers generate? Complete the sentences. Then, add one more sentence of your own about another worker. Compare answers with a partner.
 - 1. A comedian generates ______ when people hear his jokes.
 - 2. A saleswoman generates ______ for her company.
 - 3. A computer programmer generates ______ for computers.
 - 4. An architect generates ______ for new buildings.
 - 5. ____

Vocabulary Activities STEP II: Sentence Level

The verb *coincide* means "to happen at the same time as another event." It can also be used to refer to two ideas or opinions that agree.

The release of Disney's new film was scheduled to **coincide** with the first day of vacation.

Voters could not re-elect a mayor whose views did not coincide with theirs.

The noun form is *coincidence*. It refers to the surprising fact of two or more similar things happening at the same time by chance. The adjective form is *coincidental*.

By **coincidence**, Junko and Mariko came to the picnic wearing identical outfits. It was a **coincidence** that they had identical outfits.

It was also coincidental that their husbands were wearing identical shirts.



- **F.** For each of these sets of sentences, circle the one sentence that describes a coincidence. Then, write a sentence in your notebook explaining what the coincidence is, using the word *coincidence* or *coincidental*.
- 1. a. Mr. Romano had spaghetti for lunch. His wife made spaghetti for dinner.
 - b. Mr. and Mrs. Romano had spaghetti for dinner.

By **coincidence**, Mr. Romano had spaghetti for lunch on the same day that his wife made spaghetti for dinner.

- 2. a. Dmitri got on a bus to go downtown. His friend Pavlo was on the same bus.
 - b. Maria and Lupe got on a bus and they both went downtown to go to work.
- 3. a. Barry and Larry are twins. Their birthdays are on March 1.
 - b. Sue and Lou are neighbors. Their birthdays are on June 1.
- 4. a. A family has five children. Each child's last name is Rodriguez.
 - b. A basketball team has five players. Each player's last name is Rodriguez.

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	Word Forn	n Chart	
Noun	Verb	Adjective	Adverb
dominance domination	dominate	dominant	

The verb *dominate* means "to have strong control over something" or "to be the most important part of something."

My father **dominated** our lives when my brother and I were small. The huge brick fireplace **dominated** the living room.

G. Complete this paragraph, using different forms of *dominate*. Compare your work with a partner.

The term "alpha male" is used in the science of animal behavior. It refers

to the (1) ______ male in a group of animals, such as wolves.

This term can also apply to people. Among humans, the alpha male tries to

(2) ______ all of the other males in his social group; for example,

his colleagues in the workplace. In the animal world, males may fight to attain

(3) ______ over others. A human male may also "fight," but with words

and actions that prove he is superior. Often the male who (4) _____

others is friendly and has clear goals, so others like having him as their leader.

To be *aware* means "to know about or realize something." The opposite is to be *unaware*. The noun form is *awareness*.

Jon was aware that everyone was watching him.

Jon had no awareness that his name was called.

Jon seemed unaware of the audience's applause.

H. In your notebook, complete these sentences about successful people. Use your own ideas. Compare sentences with a partner.

- 1. A successful teacher is aware that . . .
- 2. During the race, marathon runners may be unaware that . . .
- 3. Someone who is applying for a job must be aware of . . .
- 4. To write a successful book, an author must have an awareness of . . .

READING 2

Before You Read

Discuss your answers to these questions in a small group.

- 1. What is your definition of personality?
- 2. Do you know people who constantly talk about themselves? Why do you think they do that?
- 3. What are some things that famous people do that you don't approve of?

Read

This excerpt from a psychology textbook discusses a personality trait called narcissism and the characteristics of people with this type of personality.

I Love Me

Tarcissus was the name of a character in an ancient Greek story. According to the story, he was very much in love with his own good looks. He drowned in a pool of water when he leaned over too far, to admire his handsome reflection. There is a personality trait named for Narcissus. It is called a

5 "narcissistic personality." People with this type of personality have great love for themselves, and this coincides with a strong need to be admired by others.

NARCISSISTIC BEHAVIOR

Most people who have a narcissistic personality are very ordinary people. However, they think of themselves as being very important and special. As a result, they often try to

- 10 exploit others. They expect other people to give them constant attention and to obey their commands. In a restaurant, for example, a narcissist might expect to be seated immediately. He might demand a better table, a special salad, or a sharper knife. Narcissists demand attention from
- 15 everyone, including their family, friends, colleagues, and even strangers.

On the other hand, narcissists can demonstrate great charm. They smile a lot. They gossip and tell jokes. They generate excitement with their lively chatter. They like to talk

20 about themselves and often dominate the conversation with stories about their exploits. In these stories they tend to greatly exaggerate their talents and personal attainments.

In fact, when narcissists describe their **attainments**, they are likely to be

lying. Lying is typical behavior for narcissists, who often try to impress ²⁵ people with false claims about things they own or people they know. They brag that their golf clubs are identical to the ones used by professional



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golfers. They claim to be best friends with the mayor and the police chief and the bank president.

ROOTS OF NARCISSISM

This kind of talk seems to reflect great self-confidence 30 and self-esteem. However, psychologists suggest that this behavior results not from self-love, but actually from fear of failure and the subsequent shame it would bring. Some say that narcissism results if parents do not comfort young children when they

35 have been disappointed or have failed to attain something. The children view this as punishment and try to avoid future failure. As a result, they never learn to deal with disappointment or failure.



They gossip and tell jokes.

Other psychologists have a slightly different theory. They believe that 40 a narcissistic personality arises when parents try to protect children from disappointment and failure by satisfying all of their demands. This generates in the children a lifelong pattern of expecting that they will always get what they want.

HOW NARCISSISTS SEE OTHERS

Narcissists do not see other people as human beings but rather as objects that 45 have no feelings or needs of their own. Narcissists believe that the role of

other people is to satisfy their needs and to admire them. For this reason, narcissists seldom have truly close friends. Instead, they surround themselves with people they consider worthy of their greatness.

NARCISSISM IN CELEBRITIES

- 50 Oddly, the narcissistic traits that we find so annoying in ordinary people are the same traits that attract us to many entertainers and professional athletes. A recent study found that celebrities as a group are more narcissistic than other people. However, it is not fame
- 55 that makes celebrities narcissistic; it is the other way around. They were first narcissistic and were then drawn to careers that would earn them admiration from others.

They are very aware of the applause of their fans. 60 They see it as a **positive** message that they are loved and admired. But they may also exploit the media to

get attention. For example, they wear show-off clothes

Narcissists can demonstrate great charm.



Celebrities are often more narcissistic than other people.

and date gorgeous partners. They marry and divorce again and again. They buy expensive cars and drive too fast. Whatever they do, the media report it 65 because the **dynamic** personalities of the celebrities, and their apparent lack

of inhibitions, seem exciting.

74 UNIT 5

NARCISSISM IN ALL OF US

All of us have some narcissism, and that's good. Self-love is what motivates people to nourish and protect their bodies, to improve their minds, to learn new skills, and to discover the world in which they live. It is what gives

70 people the self-confidence to share a relationship with others and the ambition to reach for success. However, the self-love of those with a narcissistic personality type is so excessive that it overshadows everything else in their lives. ■

Reading Comprehension

Mark each sentence *T* (True) or *F* (False) according to the information in Reading 2. Use your dictionary to help you understand new words.

- 1. Narcissists demand attention from everyone, including colleagues and strangers.
- 2. A narcissist might try to exploit people because she believes she is very important.
- _____ 3. A narcissist is aware of other people's failures and demonstrates great concern.
- 4. Narcissists often lie about what they have attained and dominate conversations with stories about themselves.
- ____ 5. Psychologists believe that narcissistic behavior coincides with self-esteem.
- 6. Psychologists believe that parents play a role in generating narcissism in their children.
- ____ 7. Celebrities get attention from the media because their behavior makes them seem uninhibited.
- ____ 8. Professional athletes become narcissistic as a result of their careers.

READING SKILL

Identifying Definitions

APPLY

 A. Complete these sentences to define the characteristics of narcissists. Refer to Reading 2 for information.

 1. They think of themselves as being

 2. They often try

 3. They expect other people to

 4. They demand

 5. They can demonstrate

 6. They like to

 7. They often dominate

 8. They tend to exaggerate

 9.

 10. They believe that the role of other people is

 11. Their self-love overshadows

B. Write a definition of narcissism in your own words.

REVIEW A SKILL Finding the Main Idea (See p. 21)

In your own words, state the main idea of Reading 1 and of Reading 2.

Vocabulary Activities STEP I: Word Level

In this unit, the adjective *professional* is used to describe activities for which participants are paid. A professional (noun) is someone who is paid for his or her work. The adverb form is professionally.

College sports dominate TV time on Saturdays and professional sports dominate on Sundays.

Those artists are professionals. I'm just an amateur.

Her real name is Mary Jones, but she's known professionally as Lucille Fontaine.

CORPUS

CORPUS

- **A.** Work with a partner. Write P for each activity that is done only by professionals. Write A for each activity that is done for fun, only by amateurs. Write B for each activity that could be done by both professionals and amateurs.
- ____1. fishing <u>4. playing basketball</u> ____7. taking photographs
- ____2. designing airplanes ____5. watching television ____8. cooking
- ____ 3. skiing ____ 6. exercising ____9. performing surgery

A dynamic person is someone who is effective and active. He or she is full of ideas and energy.

Dynamic people make good leaders.

Dynamic can also be used to refer to a force or energy that causes change in people or events.

The dairy industry has had to adapt to dynamic market conditions.

- **B.** With a partner, check (\checkmark) the jobs that could best be done by a dynamic person. Explain your choices.
 - _ farmer ____ mail carrier _ salesperson
- _ film actor
- ___ politician

- receptionist
- ____ teacher
- ___ wedding planner

Now, with your partner, complete these sentences with the names of inventions that have had a dynamic influence. (More than one answer is possible.)

- 1. _____ had a dynamic influence on the way people cook.
- 2. _____had a dynamic influence on overseas travel.
- 3. _____ had a dynamic influence on preventing illness.

The central meaning of the adjective positive is "yes." It has many uses:

good, helpful, or useful	The new law had a positive effect on the economy. Thank you for your positive suggestions.	
accepting or approving	The audience had a positive reaction to the new play.	
hopeful	A positive attitude is important if you want to reach your goals.	
certain or confident	I'm positive that Cairo is the capital of Egypt.	
affirming	The blood test was positive. She has malaria.	

C. With a partner, decide which meaning of positive is used in each sentence.

- 1. If parents are aware that a lack of ambition is common in teenagers, they may be able to minimize it by providing positive learning experiences in the early years.
- 2. Entertainers believe that the applause of their fans is a positive message that they are loved and admired.
- 3. The metal detector that screens air travelers gave a positive reading.

To *attain* something means "to succeed in achieving a goal, usually after great effort." Be careful not to confuse "attain" with "obtain," which means "to get something."

Dr. Arnet **attained** the rank of professor. Then, he obtained a new desk for his office.

I see now that being an opera singer is not an attainable goal.

- D. Complete these sentences, using obtained or attained.
 - 1. Frank Brown ______ a driver's license.
- 2. Li Xiao Ping ______an Olympic gold medal.
- 3. Admiral Blanc ______ the rank of a Naval Commander.
- 4. Abdullah ______ tickets for tomorrow's basketball game.

Now, with a partner, decide which of these things are attainable by most people. Which are unattainable? Write A for attainable and U for unattainable. Discuss your answers in a small group.

- ____ a high school diploma _____ an Olympic gold medal
- ____ a journey to the moon _____ fluency in a second language
- ____a Nobel prize _____happiness
- ____ a well-paying job _____ the starring role in a film

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Vocabulary Activities STEP II: Sentence Level

The verb *exploit* has the general meaning of "use," but can express two different ideas. It's important to understand which idea is being expressed in a particular sentence.

use something cleverly or productively

use something unfairly or selfishly A good student **exploits** every opportunity to read outside of class.

Some companies **exploit** workers by not paying them a fair salary.

The noun form, *exploitation*, almost always has the second, negative meaning.

The exploitation of workers is unfair.

CORPUS

- **E.** Work with a partner. Write *P* for the sentences that use *exploit* in a positive way. Write *N* for the sentences that use the word in a negative way.
- ____1. Some parents exploit their children by pushing them to perform in movies or TV shows.
- ____ 2. He exploited every chance to improve his writing skills.
- _____ 3. She exploited her friends by borrowing money every day.
- _____4. He exploited his musical talent by playing with a band.

In this unit, *demonstrate* means "to prove or show something." A *demonstrative* person shows his or her feelings very clearly.

Her paintings **demonstrate** a great love of her country.

My little granddaughter is so demonstrative. She is always hugging me.

Another common meaning is "to give directions about how something is done."

My trainer **demonstrated** how to use the new exercise bicycle.

To *demonstrate* is also often used to mean "to publicly show your support for or against a social or political cause."

A group was **demonstrating** in front of city hall yesterday.

Fifty demonstrators took part in a demonstration against high taxes.

CORPUS

F. Complete this paragraph, using different forms of *demonstrate*. Compare your work with a partner.

Although most narcissists live ordinary lives, it is possible for a narcissist

to become the coach of a professional athletic team. What a great way to

(1)______his or her importance. These coaches

(2) ______ their power by demanding absolute obedience from

their players. They may order punishment for any (3) _____ of

disobedience. If a player (4) ______ any behavior that could destroy

team unity, the coach may remove him or her from the team.

To inhibit an action means "to stop it or to decrease it."

Fear of failure **inhibited** him from participating in the race.

Antibiotics inhibit the growth of bacteria.

The noun form, *inhibition*, refers to the feeling of embarrassment or fear that stops someone from speaking freely or acting freely. The adjective forms are *inhibited* and *uninhibited*.

Most actors don't mind acting silly because they are **uninhibited**. They have no **inhibitions**. Most other adults have a hard time acting silly. They are too **inhibited**.

CORPUS

- **G.** Read this story. Then, in your notebook, rewrite the sentences using different forms of *inhibit*. Be prepared to read your sentences aloud or discuss them in a small group.
- 1. Last year, Ahn went to Canada because the economic slowdown in his home country reduced his professional opportunities.
- 2. Adjusting to a new country was hard. He was too shy to make friends with his colleagues. He worried that his English was poor.
- 3. He wanted to feel more free when he spoke, so Ahn decided to join an English class.
- 4. His teacher told the students, "Try to lose your shyness and negative feelings. It's okay to make mistakes."
- 5. The teacher understood why the students were embarrassed. He made them feel more comfortable, and soon the students were laughing and talking, learning English, and making friends.
- H. Self-Assessment Review: Go back to page 65 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner, share ideas about each of the following topics. Then have each person write a paragraph about one of the topics.

- 1. Imagine you would like to work as a salesperson. What qualities are important for someone in this position? What would you say about yourself that would be truthful yet emphasize your positive qualities? Write a letter to an imaginary company that describes your qualities and asks about job opportunities.
- 2. Can a narcissistic person also be a successful person? What qualities do narcissistic people have that might help them be successful? What qualities might inhibit their success?
- 3. Sir Winston Churchill said this about success: "Success is the ability to go from one failure to another with no loss of enthusiasm." Do you agree or disagree? Give an example to support your opinion.



SCIENCE

Solving Crimes with Science

In this unit, you will

- read about the use of science to solve crimes.
- review identifying examples.
- increase your understanding of the target academic words for this unit.

READING SKILL Identifying Time and Sequence Words

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

00000000	TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in <i>either</i> speaking	used the word confidently in both speaking
	AWL					or writing	and writing
P	authority						
2	conclude				Construction of the second second	Second Second Second Second	
2	consult						
	contrary						There are a second
	detect						
~	establish					Contraction of the second s	
~	instance					or the other	AND CONTRACTOR OF A
~	logic				ALCONOMIC CARDON AND A		
	motive						
P	panel				b. Branner Press		www.
*	site					a characteristic and	
~	specific					10 10 10 10 10 10 10 10 10 10 10 10 10 1	
\$	tape				the second second		
0	technical					And the second second	and the second second

Outside the Reading What do you know about science? Watch the video on the student website to find out more.

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READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Do you ever watch crime stories on television? If so, which one is your favorite?
- 2. Why do you think people like movies, TV programs, or books about solving crimes?
- 3. What are some ways that science can help the police solve crimes?

Read

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This chapter from a book of true crime stories tells how the police solved a case of theft.

Solving a Crime with Science: A True Story

t was 7:30 in the evening. Millionaire Eduard Arellano and his wife Susan were late. They had tickets for a play at a nearby theater, so they were rushing to leave the house. They set the security alarm, locked the front door of their 16-room mansion, and sped away in their BMW.

⁵ A tall man watched them drive off. He removed a key from a red cloth bag that he carried and used it to unlock the front door. Once inside, he turned off the security alarm.

The tall man knew that Eduard and Susan would be gone for hours. He would have plenty of time to do his job. He went directly to an upstairs 10 bedroom. He pushed open a wall **panel** and used a code to open a hidden

safe. Inside the safe were trays of sparkling rings, necklaces, and earrings.

As soon as Eduard and Susan arrived at the theater, they realized that they had

- ¹⁵ forgotten the tickets. Susan insisted that they return home to get them. When they arrived home, she was surprised to find the front door unlocked and the alarm system turned off. "Someone has been
- 20 in here," Susan concluded. "I'm calling the police." She was told that a police detective would be at the site in a few minutes.



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When the tall man heard voices downstairs, he knew he had to leave at ²⁵ once. He quickly stuffed the jewelry into the red bag. Then he opened a window and climbed down to a flat roof. From there he jumped to the grass and ran off.

Minutes later, the police **detective** and a team of crime scene investigators (CSI) arrived. The **detective** searched the house. Only one room showed signs ³⁰ of a crime. In an upstairs bedroom he found an open window and an empty

safe, but no thief. He **consulted** Eduard and Susan, but only the jewelry seemed to be missing.

The **detective** was puzzled. At other **sites**, a thief opened nearly every drawer in the house ³⁵ searching for valuables. To the **contrary**, this thief seemed to know exactly where to find valuables. He also knew how to unlock the front door and open the safe. It seemed **logical** that the thief knew the house. The **detective** asked Eduard and

⁴⁰ Susan many questions. He asked about their servant. He wanted to know the **specific** time they had returned home. Could Eduard and Susan be lying? What **motive** would they have for faking a theft? Could the servant be guilty?



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- ⁴⁵ Meanwhile, the CSIs were upstairs checking the bedroom for fingerprints and searching for evidence—signs that might help solve the crime. They found a button by the open window, and they **detected** a tiny red thread near the safe. They put these pieces of evidence into envelopes and **taped** them shut. Then they searched the garden.
- ⁵⁰ The next day, the **detective** drove to the home of the servant. There in a trash bin the **detective** found a grass-stained shirt with a button missing. In a

closet he found a red cloth bag—but no jewelry. The servant was arrested and taken to the police station, where ne was fingerprinted.

- ⁵⁵ Subsequent tests done at a police laboratory **established** that the grass stains on the shirt matched the type of grass at the mansion. The button came from the same shirt. Lab tests further **established** that the red thread matched
- ⁶⁰ the cloth of the red bag. And the servant's fingerprints matched fingerprints from the crime **site.** In each **instance**, the evidence pointed to the servant's guilt.

Authorities accused the servant of theft, and



- 65 he confessed to the crime. He described where he had hidden the jewelry. He said that he was **motivated** to steal because he needed money. He added, however, that Mr. Arellano had told him how to do it. Mr. Arellano said they could both make money. The servant could sell the jewelry and Eduard could be paid for his losses by his insurance company.
- At a court trial, the servant was found guilty and sentenced to five years in prison. **Technically**, Eduard was guilty, too, and he was sentenced to prison for his role in the crime. Good **detective** work and modern science helped solve a crime.

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Reading Comprehension

Mark each sentence as T (True) or F (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____1. Contrary to what Susan expected, the front door was unlocked and the alarm was turned off. She concluded that someone was inside.
- _____2. A detective asked Eduard and Susan many questions. For instance, he asked about the specific time they left the house.
- _____3. It seemed logical to the detective that the thief knew the house.
- _____4. Technically, Eduard and the servant were both guilty of a crime.
- ____ 5. The thief found money in a hidden wall panel.
- ____ 6. CSIs put the jewelry in an envelope and taped it shut.
- _____7. The detective consulted with Susan and Eduard about the shirt that the CSIs found at the crime site.
- ____8. The crime lab established that the red thread matched the cloth of the red bag.
- ____9. Authorities accused the servant of theft. His motive was to make money.

READING SKILL

Identifying Time and Sequence Words

LEARN

Understanding the *order of events* in a story is often essential for understanding the story, especially a mystery such as Reading 1. The order of events can be shown in several ways:

- 1. Sentences in a paragraph usually describe actions in the order that they happened.
- 2. Time words such as *Monday*, *March*, *summer*, or *1989* tell when actions took place.
- 3. Words such as *before*, *after*, *soon*, *first*, *next*, *meanwhile*, *then*, *finally*, and *subsequently* can show the order of events.
- 4. Phrases such as three days later, the next year, and at the same time also show time order.

APPLY

- A. With a partner, use time clues and logic to figure out the order in which these events in Reading 1 took place. Number them from 1 to 9.
- ____A detective arrives.
- ____ The tall man hears voices downstairs.
- ____ Susan calls the police.
- ____ Susan realizes they have forgotten their tickets.
- ____ The tall man watches Susan and Eduard drive off.
- ____ Eduard tells the servant how to open the safe.
- ____ The tall man stuffs the jewelry into the red bag.
- _____ Susan concludes that someone is inside.
- ____ The tall man climbs out of the window.

- **B.** For each sentence, decide which action happened first and which happened second. Mark them 1 and 2.
- _____ They realized that they had forgotten the tickets ______ as soon as they arrived at the theater.
- They were surprised to find the front door unlocked
 when they arrived home.
- ____ He knew he had to leave
- ____ when he heard voices downstairs.
- ____ He climbed out of the window
- _____ after emptying the safe.
- ____ He waited for them to drive away
- ____ before unlocking the door.

Vocabulary Activities STEP I: Word Level

The verb *consult* means "to ask somebody for information" or "to seek information in a book or other reference."

The police **consulted** a doctor to learn about the effects of the drug. I **consulted** my calendar to see when my dentist appointment was.

A. With a partner, decide whom or what you would consult for information about each of these things.

- 1. the meaning of a word
- 3. the price of an airplane ticket to London
- 2. a recipe for chicken soup
- 4. the telephone number of a restaurant
- B. Use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

conclude	detect	logic
consult	establish	site
contrary	instance	specific

Sherlock Holmes is a fictional detective, created by Sir Arthur Conan Doyle about a hundred years ago. Readers learn that Holmes is known for using

______and observation to solve crimes. As a result, the police

- _____him when they have a difficult case. In each
- (3. event), Holmes carefully examines the crime

overlooked. He might find a broken clock that can

for evidence. He might _________ faint footprints that the police

(6. tell) the

(4. location)

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CORPUS

________time the crime was committed. He often discusses the evidence with his friend, Dr. Watson. Usually Watson reasons incorrectly. He might say, "Then I must_______ that the husband did it." "On the _______, my dear Watson," Holmes might reply. "It was her jealous sister."

A site is a location or a place where an event has happened or will happen.

Police were called to the site of the accident.

A website is a location on the Internet.

The university's **website** listed all of the faculty members. The **site** didn't list their office hours, though.

C. With a partner, match the sites on the left with the people who might go to that site on the right. Discuss the reasons why the people go to the sites.
 1. accident site

1. accident site	a. a rock band	
<u>2</u> . construction site	b. a bride and groom	
3. battle site	c. an emergency medical team	
4. wedding site	d. students	
5. concert site	e. carpenters	
<u>6. graduation site</u>	f. soldiers	

The word *contrary* is most commonly used in an expression that shows disagreement.

Nayef: It's too hot today.

Ahmed: On the contrary, it's just right.

It is also used to show an opposite action.

Contrary to my parents' advice, I decided to become a lawyer.

CORPUS

D. Imagine that two people witnessed a man stealing a cell phone. They disagree when they talk to the police about what happened. With a partner, complete this conversation. Use *on the contrary*.

First Person

- 1. The robber was really tall.
- 2. He was wearing a black coat.
- 3. He looked very young to me.
- 4. He was with a friend.
- 5. He said, "I need a cell phone."
- 6. He looked scared.
- 7. He got on a bus at the corner.

Second Person

On the contrary, he was short.

On the contrary, . . .

Vocabulary Activities STEP II: Sentence Level

A *motive* is a reason for an action. The word is often used, as it is in this unit, to refer to the reason someone commits a crime.

Jim needed money fast. That was his motive for robbing the store.

There are other, equally common usages of *motive* and its forms. The verb *motivate* means "to cause someone to act in a particular way," or "to make someone want to do something."

Desire to attend the music academy motivated her to practice every day.

The promise of a raise can motivate employees to work harder.

The noun form is *motivation*. It refers to the reason for doing something, or a positive feeling about doing something.

The employees showed a lot of motivation and finished the project quickly.

Someone who feels eager to do something is *motivated*. Someone who does not feel eager to do something is *unmotivated*.

Despite interesting lessons and good teachers, some kids remain unmotivated.



CORRUS

- E. Write one or more sentences in your notebook according to the directions. Share your sentences with a small group.
 - 1. Teachers can motivate their students in many ways. Describe how a teacher once motivated you.
 - 2. Describe how advertisements can motivate people to do something.
 - 3. Some people seem to always act kind (or mean). Describe what their motive might be for acting kind (or mean).

Establish is commonly used to mean "to start something," like "establish a new school." In the context of this unit, however, *establish* is used to mean "to learn facts that prove something is true."

Detectives established that the murdered man owed money to many people.

F. In your notebook, write sentences that answer the questions. Use a form of establish in each sentence. Refer to Reading 1 for information.

- 1. What did the detective find out when he searched the house?
- 2. What did the tall man learn when he watched Eduard and Susan drive away?
- 3. What did Susan learn when she tried to open the door to get the tickets?
- 4. What did the laboratory tests show about the servant's fingerprints?

The adjective *specific* means "detailed" or "exact." It can also be used to refer to something particular rather than general. The adverb form is *specifically*. The verb form is *specify*. *The specifics* is a phrase that means "facts" or "details."

The newspaper reporter wanted to know the specifics of the crime.

- G. Read these sentences about what the police do after a crime has occurred. Rewrite the sentences in your notebook, using the form of specific in parentheses.
 - 1. The police ask many definite questions, like the victim's name and age. (specific)
 - 2. They need to know what happened. (specifics)
 - 3. They want to know the details about when the crime happened. (specifically)
 - 4. They want witnesses to tell exactly what they saw. (specify)
 - 5. They hope witnesses can give them particular information about the crime. (*specific*)

The noun *logic* refers to the use of reasoning to decide if something is possible or correct.

Instead of using logic to solve the puzzle, he tried guessing.

A *logical* decision or idea is reasonable and sensible. A decision that is based on guessing, feelings, or unreasonable conclusions is *illogical*.

It did not seem **logical** that a man would buy a car and then sell it the next day. It seemed **illogical** for him to buy a car one day and sell it the next.

CORPUS

CORPUS

H. Read this story. Then, in your notebook, write five sentences about the facts in the story. Use forms of establish, logical, and motive. Be prepared to read aloud or discuss your sentences in a small group.

Mr. Able, a jewelry store owner, claims he was robbed of \$1 million in jewels. He sued his insurance company when the company refused to pay him for the loss. Mr. Able said that one rainy winter day, a robber ran into the store carrying a gun and an umbrella. The robber kept the gun pointed at Mr. Able as he tied up his hands. Then the robber opened the safe in the back room and took all 536 pieces of jewelry. He stuffed them into a suitcase and ran out the door.

The insurance company's lawyer had a contrary point of view. He concluded that the details of Mr. Able's story are technically impossible. The lawyer said that the tape in the store's surveillance camera would show what really happened and prove that Mr. Able was lying. The tape shows the robber entering the store wearing a raincoat and carrying an umbrella—but they are not wet. He is not carrying a suitcase. The tape shows Mr. Able helping the robber tie his hands. The robber disappears into a back room for just 14 seconds, and then leaves the store carrying a suitcase. The suitcase is too small to hold 536 pieces of jewelry. The robber leaves nearly \$20,000 cash in the safe. The lawyer claimed that a friend pretended to rob Mr. Able for a share of the insurance money. His reason—he wanted to get rich quick.

READING 2

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Before You Read

Read these questions. Discuss your answers in a small group.

- 1. What does a detective do?
- 2. How can a science laboratory be used to help solve a crime?
- 3. Is it possible for someone to commit a "perfect" crime that leaves no clues? Why or why not?

Read

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This online magazine article discusses the role of scientific laboratory analysis in helping the police solve crimes.

FORENSIC SCIENCE

herlock Holmes, a fictional **detective** of a century ago, was one of the first to use forensic science—the scientific analysis of physical evidence

to solve crimes. Holding a big magnifying glass, Holmes inspected crime scenes for footprints, broken glass, hair—anything that might help identify the person who committed the crime. In today's world, Holmes might be
 a CSI, or crime scene investigator.



Actor Basil Rathbone as Sherlock Holmes

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Today, when a crime is reported—a murder, for **instance**—the police immediately send a medical examiner (ME) and a CSI team to the crime **site**. The ME and CSIs will be part of a **panel** of **technical** experts in the investigation.

MES AND CSIS

At the crime scene, the ME examines the body of the victim and looks for wounds or marks that might be related to the crime. The ME also takes many photographs of the body. The body is subsequently taken away for a detailed examination that will establish the cause and time of the victim's death.

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- 20 Meanwhile, CSIs first take hundreds of photographs of the crime site. Next they check the site for fingerprints. Most fingerprints form when sweat or another oily substance on a fingertip leaves an invisible imprint on a glass, tabletop, or other object. CSIs dust a black powder on objects at the crime site to make these
- ²⁵ prints visible. The CSIs then look for drops of blood, strands of hair, pieces of ripped cloth, or other evidence that might link someone to the crime **site**.

FINDING TRACE EVIDENCE

"Every contact leaves a trace," according to an **authority** in forensics. This means that whenever a crime involves physical
³⁰ contact, the criminal either leaves something at the **site**, takes something from the **site**, or both. This might be any number of substances, including hair, animal fur, sand, grass, and fibers from clothing or carpeting. Such trace evidence is usually difficult to **detect**, so, like Sherlock Holmes, CSIs rely on handheld

³⁵ magnifying glasses to examine the crime scene. CSIs might even vacuum the entire area to collect tiny samples. They carefully label each piece of evidence as they collect it.

THE FORENSICS LABORATORY

The collected evidence is then sent to a forensics laboratory. There, forensic scientists will analyze it to **establish** how and when the

⁴⁰ murder took place, where it took place, and who did it. Sometimes the evidence will even show why it took place; that is, the **motive** for the killing.

Among all the evidence found at the **site**, fingerprints are **conclusive.** This is because no two people have the

⁴⁵ same fingerprints. Fingerprints from a crime scene are analyzed by computer to determine if they match the prints of a known criminal or crime suspect—a person who might be guilty of a crime.

DNA is another **conclusive** means of identification because ⁵⁰ each person's DNA is unique. DNA is contained in cells of the body, so that evidence of hair, blood, tears, sweat, or other bodily fluids found at a crime scene can be used to link a **specific** person to the crime. Like fingerprints, DNA samples are analyzed by computer to determine if they

55 match the DNA of a known criminal or a suspect.

Voices, too, are unique. Samples of voices from security camera **tapes**, telephone answering machines, or other recording devices can be scanned electronically. A printout of the scan will show patterns of highs and lows, rhythm, and volume that can be

60 compared to patterns of a suspect's voice. However, authorities have contrary opinions about using voiceprints for identification.



Some argue that voices can change over time as people age or suffer illnesses, so old voiceprints are not always reliable.

In the laboratory, forensic scientists use an electron microscope

- to scan samples of the substances that were collected at the crime scene. Then they enlarge the samples (up to 150,000×) on a visual display unit. This allows them to easily
- compare those samples with samples found at another location or on a suspect's clothing.
- Forensic laboratories have on file the shoe print patterns of thousands of kinds of shoes. These can be compared to shoeprints found at a crime scene to **establish** the size and kind of shoes worn by a suspect. If the shoeprint was made in a soft
- ⁷⁵ material, like mud, the lab may be able to tell the height and weight of the person by the depth of each step and the distance between steps.

After all of the evidence has been analyzed, the police chief **consults** with **panel** members. Based on the evidence, they

80 determine if it is **logical** to accuse and arrest a crime suspect. If it is, members of the **panel** may later be asked to present their forensic evidence in a court of law as proof of a suspect's guilt.

Medical Examiner Crime scene investigators Crime scene investigators Crime scene investigators Forensic Scientists

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Reading Comprehension

Mark each sentence as *T* (True) or *F* (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- 1. Holmes inspected a crime site for anything related to the crime; for instance, footprints, broken glass, or hair.
- ____ 2. CSIs are part of a panel of technical experts in a forensic investigation.
- _____ 3. Forensic laboratories establish when and where a murder took place by taking hundreds of photographs.
- 4. To identify footprints, forensic laboratories consult files of footprints of known criminals.
- ____ 5. CSIs use handheld magnifying glasses to detect trace evidence at crime scenes.
- _____ 6. Authorities have contrary opinions about using fingerprints for identification.
- _____ 7. DNA analysis can conclusively establish the motive for a crime.
- 8. Samples of a suspect's voice can be compared to voice samples from surveillance tapes or telephone answering machines.
- 9. A suspect will be arrested if, based on the evidence, it seems logical that he or she committed the crime.
- 10. Fingerprints found at a crime scene can be linked to a specific individual if they match the individual's fingerprints.

READING SKILL

APPLY

- A. Scan the first four paragraphs of Reading 2. Answer the questions in complete sentences. Include the time words or phrases used in the Reading.
 - 1. When did Sherlock Holmes do his detective work?
- 2. When do the police send an ME and a CSI team?
- 3. When do the CSIs take photographs in relation to other tasks?
- **B.** Number these tasks from 1 to 7, in the order in which they are done by the CSI team.
- ____ dust objects for fingerprints
- ____ take photographs
- <u>send</u> evidence to a forensics laboratory
- ____ present their evidence in a court of law
- ___ look for drops of blood or strands of hair
- ___ label the evidence
- ____ consult with the police chief

REVIEW A SKILL Identifying Examples (See pp. 52–53)

What kind of examples are listed in paragraph 4?

What kind of examples are listed in paragraph 5?

Vocabulary Activities STEP I: Word Level

The adjective *technical* refers to the knowledge of machines, materials, and processes used in science and industry.

Forensic scientists use their **technical** skills to analyze crime scene evidence.

This unit also uses the adverb *technically*, which means "according to an exact interpretation of a law or a fact."

You can't come in yet. It's only 9:58. **Technically**, the store doesn't open until 10:00.

Another common use of the word *technical* is to refer to words and concepts related to a particular subject.

CORPUS

"Stress" is a technical word used in engineering.

A. Complete the story with the words from the box.

technical assistance	technical person	logic	site	
technical explanation	technical words			

My computer printer wasn't working right, so I called the company hotline for

(1) ______. The guy on the phone gave me a

(2) ______ of the problem. I said, "Stop!

You're using too many (3) ______. I'm not a

(4) ______."

So he said, "See the button that says ON? Just push that."

- **B.** With a partner, complete these sentences with your own ideas. Share your ideas with the class.
- 1. "I know your 21st birthday is tomorrow, but today you are technically..."
- 2. "The sign says three lemons for one dollar. Technically, one lemon would cost..."
- 3. "Waiter, a fly fell into my soup." "I'm sorry, but the restaurant is not technically responsible for..."
- 4. "I see the sign that says No Parking, but technically I'm not parked, I'm just..."
- **C.** With a partner, decide who has the authority to punish someone who breaks the rules or laws in these situations.
- 1. in a soccer game 3. in a city 5. in an office
- 2. in a classroom 4. in a family 6. in a store

An *authority* is a recognized expert in a field. The adjective form is *authoritative*.

Professor West is an authority on the history of crime.

He wrote an authoritative book titled Crime in Nineteenth Century Britain.

An *authority* is also a person or group that has the power to make rules or laws.

The city transportation authority wants the bus company to add new routes.

Authority (noncount noun) refers to the power that such a person or group has.

Parental authority today is not as strong as it was in the past.



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- **D.** When police detectives need special information to solve a crime, they consult an *authority*. With a partner, match the authorities on the left with their areas of special knowledge. Take turns making sentences with the information. Look up unfamiliar words in your dictionary.
- <u>a</u> 1. ornithologist a. birds

An ornithologist is an authority on birds.

- ____2. zoologist b. weather
- ____ 3. graphologist c. animals
- _____4. toxicologist d. handwriting
- ____5. meteorologist e. poisons

Vocabulary Activities STEP II: Sentence Level

Word Form Chart					
Noun	Verb	Adjective	Adverb		
detective detection	detect	detectable			
detector	uotoot		and the second second		

E. Complete this paragraph by using a form of *detect* in each blank. Compare work with a partner.

A polygraph is a machine that is often called a "lie (1) _______." It is used by some (2) _______ when they question suspects. The polygraph is based on the belief that, if a person is lying, his or her body will react with (3) _______physical changes, such as increased blood pressure and heart rate. The machine (4) _______ these changes and records them. If the polygraph shows that physical changes occurred when the suspect answered, the (5) _______concludes that the suspect is lying. However, polygraph tests are only 70–90% accurate. This means that 10–30% of those tested might escape (6) ______even if they are guilty—or they might be considered guilty even though they are innocent.

An *instance* is an example or case of a particular kind of occurrence.

Yesterday's bank robbery was another **instance** of crime in the neighborhood. For instance is a common phrase that means, "for example."

Bank security was poor. For instance, the cashiers had no warning alarms.

F. Match each sentence on the right with the example that goes with it on the left. Use for instance to join the sentences, and write them in your notebook. Compare answers with a partner.

Bank security was poor. For instance, there was no guard at the door.

- <u>d</u> 1. Bank security was poor.
- ____2. The robbers were armed.
- _____ 3. The robbers didn't plan very well.
- _____4. The robbers covered their faces.
- ____ 5. The robbers did not seem very smart.
- a. one was wearing a black ski mask.
- b. none had a specific job to do.
- c. each robber had a gun or a knife.
- d. there was no guard at the door.
 - e. the note said GIV ME YOR MONEE.

The verb *conclude* has the general meaning of "end" or "finish." It can also mean "to reach a decision after thought or study." The adjective *conclusive* refers to something that is definitely true.

The lawyer concluded his summation of the case and calmly sat down.

The jury concluded that the suspect was guilty.

His fingerprint on the knife is conclusive proof that he is guilty.

The noun form is conclusion. It is used in some common expressions:

reach a conclusion make a judgment after careful consideration come to a conclusion make a decision after careful consideration jump to conclusions make a judgment based on feelings, not facts

CORPUS

G. Read these statements about a crime. In your notebook, answer each question that follows, using a form of *conclude*. Be prepared to read aloud and explain your answers in a small group.

- A valuable painting was stolen from a popular art museum.
- · Jim's fingerprints were found on the wall where the painting had been.
- Jim said he didn't steal the painting. A polygraph test showed that he was not lying.
- His friend, Dave, said that Jim was with him at the time the theft took place.
- . The painting was found in Dave's house. It had Dave's fingerprints on it.
- 1. Who did the police decide was guilty?
- 2. What did the police decide about the fingerprints on the wall? Why?
- 3. What evidence proved who was guilty?
H. Imagine that you are Hosun Kim, a private detective (rather than a police detective). You help companies solve problems. You have just received an email offering you a job. After you investigate Ms. Park, write in your notebook an "email" to Mr. Lee telling him what you found. Include forms of the words detect, consult, motive, and conclude. Share your email with a partner or small group.

Dear Mr. Kim,

I am in charge of medical claims for the ABC Insurance Company. We have an unusual case and want to hire you to help us.

Ms. Jenny Park has requested payment of \$500,000. She says that she cannot walk and that she is unable to work. She says she had to hire someone to take care of her children and to do other domestic jobs. We are certain that she is perfectly healthy. Please investigate her situation for us. We will pay for your time and your expenses to prove that she should not be paid \$500,000.

Sincerely, Jack Lee Chief Claims Investigator for ABC Insurance

Self-Assessment Review: Go back to page 81 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Find an article in a newspaper or news magazine that describes a crime. Describe what happened.
- 2. What qualities should a good police detective have? Why?
- 3. In some countries, the media are given access to information about crimes as the specifics become available. In other countries, the media may not publish or broadcast information about a crime investigation. Which do you think is the better way? Why?

BUSINESS

The Fast-Food Revolution



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In this unit, you will

UNIT

- read about the fast food revolution and the subsequent expansion of franchises.
- review identifying examples.
- increase your understanding of the target academic words for this unit.

READING SKILL Reading Numerical Tables

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

	TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking	used the word confidently in both speaking
	AWL				Same and the second	or writing	and writing
\$	abandon				and the second of the	hand examples	
~	acknowledge						
	albeit					and the second second	
	complement				angen kanna kan		
2	contemporary				an a	orre sontre i	
2	contrast			Second Star	Contractor and	ore Selon	
8	decade			a the second second		CTALL THE	
\$	economy				and states		2000 - 10
~	expand			atter arts offer be-		and the states	1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -
2	generation					aacaaris mag	Maria Carl
2	grade					Contraction of second	
	incline						
2	output						
	overlap						and the second sec
P	reject				The second second second	freedin (Linea)	www.ktbanguaige.com



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READING

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Before You Read

1

Read these questions. Discuss your answers in a small group.

- 1. Think about the last time you ate in a fast-food restaurant. What did you eat? Besides the food, name three good things about your experience.
- 2. Why do some people dislike fast-food restaurants? Do you agree with their complaints?
- 3. Why do you think there are so many fast-food restaurants?

Read

سوجيع زبان الراشان 🔘 🜔 🌔

This online magazine article discusses the many reasons behind the worldwide expansion of fast-food restaurants.

The Fast-Food Revolution

Maurice and Richard McDonald made a lot of money with their restaurant, but they grew tired of the stresses of ownership. The brothers were tired of searching for

⁵ replacements when their cooks and waitresses quit. They were tired of replacing broken dishes and glassware and lost



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silverware. Before **abandoning** their successful business, however, they decided to try a new system of preparing and serving food.

A NEW KIND OF RESTAURANT

- ¹⁰ Their remodeled restaurant **contrasted** with the original. It served just hamburgers, cheeseburgers, french fries, and drinks. Paper wrappers and paper cups replaced the dishes and glassware. Silverware wasn't needed because the restaurant didn't serve any food that required a knife, fork, or spoon to eat. The professional cooks were gone, too. Instead, food
- ¹⁵ preparation was divided among several workers, each with a specific task. One worker fried the hamburgers; another wrapped them in paper; a third cooked french fries; and another poured drinks. There were no servers. Customers ordered food and paid for it at a counter. Then they carried their own food to a table. This new system was like a factory assembly line.

²⁰ Increasing the speed of food preparation increased the kitchen's **output** and lowered its costs. The system revolutionized the restaurant business and introduced the term "fast food."

ANOTHER FAST-FOOD RESTAURANT IS BORN

Carl Karcher heard that a nearby restaurant was selling cheap, **albeit** top-**grade** hamburgers for 15 cents. He was charging 35 cents for burgers in his own restaurant. When he visited the McDonald's restaurant, he was astonished to see dozens of customers waiting in line to buy 15-cent

³⁰ burgers while the assembly-line kitchen staff efficiently prepared their food. He **acknowledged**



An early McDonald's restaurant

that this new restaurant system was a good business model. In 1956, Karcher opened his own fast-food restaurant and named it Carl's Jr.

Around this time, Ray Kroc, a salesman who sold milkshake machines to ³⁵ restaurants, also visited the new McDonald's restaurant. Kroc was impressed by its food preparation system. He persuaded the McDonald brothers to sell him the authority to build more McDonald's restaurants across the United States. By 1960, Kroc had opened 250 of them. A **decade** later, there were nearly 3,000 restaurants in the McDonald's restaurant chain, all owned by one corporation.

THE GROWTH OF A NEW INDUSTRY

⁴⁰ The fast food industry grew because it was born at the right time. One factor was that the U.S. economy was expanding. The young people in the 1950s were an optimistic generation. They were inclined to believe that they would be successful in life if they worked hard.

Another important factor that led to the enormous growth of the fast food ⁴⁵ industry was the automobile. New technology had made automobiles dependable, affordable and easy to drive. People bought new automobiles and

wanted to go places. A national highway system, **expanded** during the 1950s, enabled U.S. families to drive long distances. They needed

gasoline stations where they could refuel their vehicles and ⁵⁰ restaurants where they could eat. In time, hundreds of new gasoline stations were built along the highways. These were **complemented** by new fast-food restaurants where travelers could eat a quick meal.

THE MODEL SPREADS

The McDonald's food service model was widely copied in ⁵⁵ these new restaurants, often by inexperienced owners who wanted to get rich quickly. Some of the new restaurants failed, but many succeeded. Like McDonald's, some even **expanded** into nationwide chains with hundreds of restaurants throughout the country. Among the



A popular fast-food chain in Japan

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60 contemporary start-ups in the 1950s and 1960s were Burger King, Wendy's, Domino's Pizza, and Kentucky Fried Chicken (KFC).

These restaurants and others that copied the McDonald's system revolutionized the food-service business. The successful chains of restaurants that were created soon inspired other kinds of retail businesses to form their

- ⁶⁵ own national chains. Clothing stores, movie theaters, car rental agencies, bookstores, shipping services and hotels are just a few of the businesses that established nationwide chains. By the 1970s, the chain store business model was rapidly spreading overseas to other countries, where domestic companies created their own nationwide business chains.
- ⁷⁰ Although many people worldwide **rejected** the idea of globalization, business chains were soon **overlapping** their national borders. National chains became international chains. By 2010, overseas businesses had become common in many countries around the world. A model for fast-food restaurant service helped to revolutionize business throughout the world.

Reading Comprehension

Mark each sentence as T (True) or F (False) according to the information in Reading 1. Use your dictionary to help you understand new words.

- _____1. Maurice and Richard McDonald abandoned their restaurant because the output was low and it did not make enough money.
- 2. Their original restaurant used glassware for drinks. In contrast, the new restaurant used paper cups.
- ____ 3. McDonald's hamburgers were top-grade but very expensive.
- 4. In the decade between 1960 and 1970, McDonald's expanded to around 3,000 restaurants nationwide.
- ____ 5. Among the contemporary start-ups of the 1950s and 1960s were Domino's Pizza and Wendy's.
- 6. In the 1950s, people were optimistic, albeit inclined to worry about the economy.
- 7. This generation rejected fast foods because they acknowledged the new food preparation system was not efficient.
- ____ 8. Many roadside stops included the complement of a gas station and a fastfood restaurant.
- _____9. Many business chains are overlapping U.S. borders into other countries.

READING SKILL

Reading Numerical Tables

LEARN

Numerical tables can provide a lot of information in a small space. The information is usually arranged in rows and columns, which makes it easy to read and to compare facts. To preview a table or chart:

- 1. Read the title to see what kind of information is given.
- 2. Read the labels at the top of each column.
- 3. Note the date of the table so that you will know how recent the information is.

APPLY

Read the table. Then, use the information to answer the questions below.

	2011 Fast-Food Franchises						
Restaurant	Start-Up Year	Franchises Worldwide	Countries With Franchises				
KFC	1952	11,000	60				
Pizza Hut	1958	10,000	90				
Burger King	1954	12,200	73				
McDonald's	1955	31,000	122				

With a partner, find answers to these questions in the chart.

- 1. What year did Burger King start up?
- 2. How many countries have a Pizza Hut restaurant?
- 3. Which restaurant has the most franchises worldwide?
- 4. Which restaurant started most recently?

Vocabulary Activities STEP I: Word Level

A. With a partner, use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

abandon	albeit	generations	inclined
acknowledges	expand	in contrast	rejecting

The people of past ate in restaurants only on weekends or (1. people born at about the same time) special occasions. _ ., people today are _ to (2. showing a difference) (3. likely) eat out several times a week. This could be a problem if their menu choice is always a hamburger and french fries. Nearly everyone _ that too much (4. agrees that it's true) fat in the diet is not healthy. Unfortunately, hamburgers and french fries are high in delicious. Instead of _ fast food fat, (5. although) (6. refusing) altogether, people should simply _ the burgers and fries and (7. stop having) their food choices by ordering something different. (8. increase)

B. Write the length of each time period. Consult your dictionary, if needed.

1. a week	<u>_7</u> days	4. a millennium	years
2. a decade	years	5. a millennium	decades
3. a century	decades	6. leap year	days

C. Output refers to the production of something or the amount of something produced. With a partner, match the output on the right with the person, machine, or business that produces it on the left. Then take turns creating sentences.

The output of an automobile factory is new cars.

<u>1</u> . an automobile factory	a. stories
<u>2. a movie studio</u>	b. milk
<u>3. a bakery</u>	c. films
<u>4</u> . an author	d. electricity
5. a power plant	e. cakes and pies
<u> </u>	f. new cars

A *generation* is the group of people (in a family or a society) who are approximately the same age.

Americans born in the late 1960s and 1970s are informally called "Generation X."

People who are approximately the same age are contemporaries (noun).

Your generation liked rock and roll. My contemporaries prefer hip-hop.

The adjective *contemporary* is used to refer to things that happen or exist at about the same time.

The increase in use of automobiles was **contemporary** with the growth of fast-food restaurants.

Another common use of the adjective form is to describe styles that are modern or current in areas such as art, music, or literature.

The hotel was a beautiful example of contemporary architecture.

CORPUS

- **D.** In a small group, discuss some of the things that make you and your contemporaries different from your parents' generation.
- **E.** With a partner, match each item from the past with a contemporary invention that has the same function. Discuss how each contemporary invention changed the way that people live or work.
- ____ 1. dial telephone

- a. microwave oven
- ____ 2. wood-burning stove
- b. word processor

____ 3. ceiling fan

c. air conditioner d. cell phone

- <u>4. typewriter</u>

The verb *complement* is related to the word "complete." It is used to refer to things that go well together because, together, they make something complete or better. The adjective form is *complementary*.

Caramel corn is delicious. The sweet caramel complements the salty popcorn.

In this unit, complement is also used to mean "a set or group."

It takes a complement of eight workers to run this restaurant.

Note: Be careful not to confuse *complement* with *compliment*. To compliment someone means "to praise or express admiration for someone."

The customer complimented the waiter for his excellent service.

- F. Circle the word that correctly completes each sentence. Compare answers with a partner.
- 1. This picture frame and that painting (compliment / complement) each other.
- 2. Maria was grateful for her teacher's (complimentary / complementary) remarks.
- 3. The tan shirt (compliments / complements) the brown suit.
- 4. Business partners should have (complimentary / complementary) skills so that one can manage the finances and the other can manage the employees.

Vocabulary Activities STEP II: Sentence Level

The phrase *in contrast* is used to show the difference between <u>two</u> people, objects, or events.

Desserts do not provide vitamins. **In contrast**, fruits and vegetables are vitamin-rich.

Use the phrase to contrast with when showing a difference between two things.

The sweet chocolate contrasted nicely with the salty pretzel.

Albeit (pronounced all–BE-it) is more common in written language than in speech. It is used to show a difference within <u>one</u> person, object, or event. *Albeit* is similar to "but" or "although."

The French fries were delicious, albeit greasy.

CORPUS

G. In your notebook, write sentences about fast-food restaurants, using each pair of items and the words in parentheses. Compare sentences with a partner.

1. wash glasses / throw away paper cups (in contrast)

Restaurants wash glasses. In contrast, fast-food places throw away paper cups.

- 2. the burger was good / the burger was small (albeit)
- 3. broken chairs / shiny new tables (contrast)
- 4. a parent's idea of a good lunch / her child's idea of a good lunch (contrasting)
- 5. soft drinks \$1.25 / water free (in contrast)
- 6. the tiny salad / the enormous hamburger (contrast)

When you *abandon* something, you leave it because you don't want it or can't use it. Sometimes you give it up just temporarily.

The house finally collapsed after the owners **abandoned** it many years ago. The snow was so deep that drivers had to **abandon** their cars and walk home.

To *abandon* a plan or a task means to stop before you have completed it.

I had to **abandon** my plans to travel last summer because I got sick.

When you *reject* something, you refuse to accept it. This verb is commonly used to refer to ideas or plans rather than objects. It is also often used to refer to people who are not accepted for jobs. The noun form is *rejection*.

Centuries ago, people **rejected** the idea that the earth revolved around the sun. Brad offered to drive, but we all **rejected** the offer. The University **rejected** Ted's application. He got a letter of **rejection** yesterday.

H. Complete these sentences, in your notebook, with your own ideas. Use a form of abandon or reject in each one. Compare sentences in a small group.

CORPUS

- 1. In fast-food restaurant parking lots, there are paper cups and wrappers . . .
- 2. Babies are sensitive to new tastes, so they may . . .
- 3. Some fast-food restaurants tried selling vegetable burgers, but . . .
- 4. When the economy is slow, restaurant chains that planned to expand may . . .
- 5. We planned to go out to dinner, but when it started to rain . . .
- 6. The manager offered us a free dessert, but we . . .

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Do you know someone who owns a small business? If so, what kind of business is it?
- 2. What would be some good things about owning your own business? What would be some negative things?
- 3. How many retail business chains can you name? Take turns naming them.

Read

This excerpt from a business textbook defines what a franchise is and discusses the advantages and disadvantages of owning one.

Franchising

A tone time, all small retail businesses, such as clothing stores, restaurants, shoe stores, and grocery stores, were owned by individuals. They often gave the stores their own names:

- 5 Lucy's Dress Shop, Fred's Coffee Shop, Johnson Family Grocery. For some people, owning a business fulfilled a lifelong dream of independent ownership. For others, it continued a family business that dated back several generations.
- ¹⁰ These businesses used to line the streets of cities and small towns everywhere. Today, in **contrast**, the small independent shops in some countries are almost all gone, and chain stores like The Gap, Starbucks, and 7-Eleven have moved in to replace



At one time, all small businesses were owned by individuals or families.

¹⁵ them. Most small independent businesses couldn't compete with the giant chains and eventually failed. However, many owners didn't **abandon** retail sales altogether. They became small business owners once again through franchises. The franchise system is a **contemporary** business model that has increasingly dominated the small business sector of retail trade over the last few **decades**.

A FRANCHISE DEFINED

- ²⁰ A franchise is a legal and commercial agreement between an individual and a parent company. It gives the person permission to own one of the company's franchise outlets, to use the company name, and to sell the products or services of the company. A person must apply for a franchise; however, not all applicants are approved. Some may be **rejected** because of
- 25 poor financial histories, for example. If approved, the new business owner (the franchisee) must pay a large start-up fee to the company (the franchiser) and agree to follow its regulations. These regulations require complete uniformity in all of its franchises. This means that the franchiser establishes the rules for the appearance of the store, both inside and
- ³⁰ outside. It means the franchisee can sell only the products or services of the parent company. It means that a "large coffee" must be the same size in every company franchise. It means that all restaurants in a franchise system must put the same number of pickles on their burgers, and use identical napkins, paper cups, and food wrappers. It also means that the franchisee
- 35 is graded regularly on its performance by the parent company.

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Not all chain stores are franchises. Some are owned and operated by the parent company. In contrast, a franchise is owned by the franchisee. Restaurants are the most common franchises. On any city block you are likely to see at least one franchise restaurant, and often three or four. In

40 some shopping centers, the entire complement of stores is made up of franchises. Almost any kind of business can be franchised, including dental offices, hardware stores, hotels, gas stations, pet hospitals, tax consultants, fitness centers, cleaning services, movie theaters, and child care centers.

ADVANTAGES OF OWNING A FRANCHISE

Despite the restrictions, there are many advantages

- 45 to owning a franchise. The most important advantage is the support and assistance of the franchiser. For example, the franchiser can help a new owner find a good location, help plan an efficient use of floor space, and help decide on the
- The franchiser also provides detailed training for the owner and staff in all areas of the business. Once

50 amount of goods needed to start up the business. established, the franchisee benefits from ongoing research and development

by the company to keep the business up-to-date and competitive. Company 55 consultants and a network of fellow franchisees offer opportunities to discuss business problems. All these support services provide small business owners with the tools of big business, albeit not for free.

There are other advantages to owning a franchise. It helps to own a business with the name of a well-known corporation with an acknowledged

- 60 reputation for good service. Customers are inclined to shop at stores with familiar names, and more shoppers mean more sales. Also, individual franchises benefit from the output of expensive advertisements paid for by the company, which might overlap with local advertising by franchisees. When this happens, there is an extra benefit. Finally, the franchisees are not
- 65 employees of the company. They are business owners, motivated to work hard to make their businesses successful.

DISADVANTAGES OF OWNING A FRANCHISE

The major disadvantage of the franchise model is the close economic relationship among the many franchisees and the parent company. For instance, if one franchisee in the 70 system is found guilty of cheating customers, it reflects

- poorly on the other franchisees in the system. As a result, all the stores may lose customers. Similarly, if the company makes poor business decisions, the entire chain of franchises may be affected. Finally, the business owners
- 75 must share their profits with the parent company to pay for the many support services that the company provides.

SPREAD OF THE FRANCHISE MODEL

The success of the franchise system has led to a great expansion in the number of small businesses all over the world. Tried first in the United States, the franchise





⁸⁰ model has spread rapidly to other countries. It has revolutionized retail business in many places, improved the **economic** status of individuals, and strengthened local **economies.** ■

Reading Comprehension

Mark each sentence as T (True) or F (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. Franchising is a contemporary business model that has dominated the small business sector for a few decades.
- ____2. A franchisee's business is rarely graded by the parent company.
- ____3. In some shopping centers, the entire complement of stores is made up of fast-food restaurants.
- ____4. Companies provide services to their franchise owners, albeit not for free.
- ____5. There is a business advantage to owning a franchise with the name of a company with an acknowledged reputation for good service.
- ____6. Customers are inclined to shop at stores with familiar names.

READING SKILL

Reading Numerical Tables

APPLY

Preview this table. Write the answers to the questions below in your notebook. Compare answers with a partner.

2011 Start-Up Costs f	or Selected Franchises	
Franchise	Start-Up Cost 1	
Burger King	1,200,000-2,800,000	
Hampton Inn (hotels)	3,716,000-15,148,800	
Dunkin' Donuts	537,750-1,765,300	
Subway (sandwiches)	84,300-258,000	
Kumon Math & Reading Centers	33,000-130,000	
McDonald's	996,000-1,842,700	
Midas (auto repair)	380,000-528,000	
¹ in U.S. dollars		

- 1. The start-up cost for each franchise is given as a range from the minimum cost to the maximum cost. Using the minimum costs, rank the franchises from the lowest to the highest start-up cost.
- 2. Using the maximum costs, rank the franchises from the lowest to the highest start-up cost.
- 3. Which franchise has the smallest range between its minimum and its maximum start-up costs? Which has the greatest range? Can you guess why there is a range in the start-up costs for each company?

 Amounts in the millions, such as \$2,800,000, might be listed on a chart as \$2.8 million. We say this number as: "two point eight million dollars." With a partner, read aloud all of the start-up costs greater than one million dollars.

REVIEW A SKILL Identifying Examples (See pp. 52–53)

With a partner, identify the many examples related to franchising that are included in Reading 2 (such as the kinds of businesses that can be franchised).

Vocabulary Activities STEP I: Word Level

- A. To grade something is to rate it or rank it by some quality. With a partner, imagine that you work for a large fast-food corporation. Your assignment is to create grading standards that inspectors can use to grade individual franchise restaurants. Which of these would you include in your grading standards?
- ____ The kitchen is clean. ____ The french fries are crispy.
- The owner wears glasses.
 The food was ready quickly.
 The workers live nearby.
- _____ The workers wear clean uniforms. _____ The cashier is friendly.

Think of two more standards to add. What kind of grading standard would you have for your list? Consider these possibilities:

Yes/No	A, B, C, D, F	Pass/Fail	Excellent/Good/Poor

B. Use the target vocabulary in the box to complete this story. Use the words in parentheses to help you.

complement	generation	in contrast
contemporary	grade	output
expanded	had an inclination	specific

_______ supermarket was born, influencing not only the way people shopped, but also other aspects of the food business. For example, food suppliers

(6. production)	reased. In order to
attract customers, they used more attractive packaging to	(7. go together with) the
better of food they began to use. They	
prices, and began advertising their brand-named products.	
To <i>acknowledge</i> something means to admit or agree that is The noun form is <i>acknowledgment</i> .	t is real or true.
Sam acknowledges that the supermarket has lower prices, still prefers the small market near his house.	but he
	CORPU

- **C.** With a partner, match the beginnings of the sentences on the left with the endings on the right to make complete sentences. Take turns saying the complete sentence.
- ____ 1. I acknowledge that English is difficult,
- ____ 2. I acknowledge that air travel is fast, b. but I hate to cook.
- _____ 3. I acknowledge that exercise is good for you,
 _____ 4. I acknowledge that cats are good pets,
 _____ d. but I hate to fly.
- ____ 5. I acknowledge that it's cheaper to eat at home, e. but I'm a fast learner.

When two things *overlap*, part of one thing covers part of the other. The verb *overlap* can refer to time, topic, or the position of objects in space. When two events *overlap*, the second one starts before the first one ends. When two topics *overlap with* each other, they cover part of the same subject matter. The noun form is also *overlap*.

These two meetings overlap, so we need to reschedule one of them.

There was a lot of **overlap** between the lecture on computers and the one on Internet technology.

A fish's scales overlap each other to protect the skin beneath.



a. but I don't want one.

D. Look at this schedule of history classes on Monday at State College. Then discuss with a partner which classes overlap in time and which overlap in subject matter. What changes do you suggest?

Class	Time
Roman History	8:00-9:30
Europe from 1850 to Present Day	9:00-10:30
The History of the Middle East	10:30-12:00
Roman and Greek History	1:30-3:00
Europe from 1800 to 1900	3:00-4:00
The History of China	3:30-5:00

Vocabulary Activities STEP II: Sentence Level

To *expand* means "to grow or increase." The noun form is *expansion*. The adjective form is *expansive*. It means "covering a wide area."

The **expansion** of the library took nearly a year to complete.

People are happy with the expansive new parking lot at the store.

- E. Restate these sentences in your notebook, using the form of expand in parentheses.
- 1. The McDonald's menu now includes salads. (bas expanded)
- 2. By 2011, the network of McDonald's franchises covered 119 overseas countries. (*expansive*)
- 3. Recently, McDonald's growth has been faster overseas than in the United States. (*has been expanding*)
- 4. Many McDonald's franchises have added a children's play yard to increase their appeal to families. (*expand*)

	Word Fo	rm Chart	
Noun	Verb	Adjective	Adverb
economy		economic	
economics	economize	economical	economically
economist		economy	

The noun *economy* refers to the operation of a country's money supply, industry, and trade. The term *the economy* is often used to refer to the financial situation of a particular nation. The adjective form related to this meaning is *economic*.

In a healthy economy, almost everyone who is able to work has a job.

The economy may be weakened by recent labor strikes.

Franchising has benefited the economies of many developing countries.

Economic growth has slowed in recent months.

Another common use of *economy* (noun) is to refer to the careful use of time, money, and materials. The verb form related to this meaning is *economize*. The adjective form is *economical*.

Fast-food kitchens are examples of **economy**: no food is wasted, no time is wasted.

A restaurant might try to economize by serving smaller portions.

It may not be economical for a store to stay open extra hours per day.

Economy is also an adjective form that is used to describe products.

Buy the giant economy size. You'll save money.

Economics is the science that studies systems of production, distribution, and use of goods and services. An *economist* is an expert in economics.

Professor Brown teaches **economics**. He is an **economist** as well as a business owner.



CORPUS

F. Complete the paragraph, using forms of economy. Then compare your work with a partner.

Giant retail stores make a small profit on each item they sell, but they depend on making a large number of sales. Their goods are (1) _____ priced to attract customers. Shoppers are pleased that they can (2) ______ by buying products in large, (3) _______ sizes. They believe that it is (4) ______ to buy more and pay a lower price. (5) _____ have studied the effect of a giant store on the local (6)______ of cities where they are located. They believe that the (7) ______ impact is great. Many small stores are forced to close because they cannot compete with the giant retailers. If someone is inclined to do/be something, it means he or she is likely to do/ be it, based on his or her nature, personality, or experience. The noun form, inclination, can also be used to express the same meaning, as in the phrase to have an inclination (to do something). Steve is inclined to be very careful with his money. He has an inclination to look for bargains whenever he goes shopping. She'll probably learn the piano easily because she's very musically inclined. Note: Incline (noun, pronounced IN-cline) refers to a slope.

When parking on an incline, be sure to set your car's brake.

111

COAPUS

- **G.** In your notebook, write sentences that include these ideas. Use a form of *incline* in each.
- 1. people who are very hungry / eat too much

People who are very hungry are inclined to eat too much.

- 2. a teenager's eating habits / toward fast food
- 3. people who can't swim / (not) own sailboats
- 4. babies / cry a lot
- 5. little sisters / copy their big sisters
- **H.** Self-Assessment Review: Go back to page 97 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or a small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. What are some changes that a fast-food restaurant might have to make when it opens a franchise in another country? Consider, for example, the food, the people, and the local customs.
- 2. Why are small, independent retail businesses inclined to disappear when franchise stores open nearby?
- 3. Many companies are now creating franchises in developing countries. Do you think these franchises help or hurt the economies of these countries? Explain your opinion.



UNIT

NEUROSCIENCE

The Autism Puzzle

In this unit, you will

- read about a puzzling brain disorder.
- review finding main ideas in a text.
- > increase your understanding of the target academic words for this unit.

READING SKILL Making Inferences

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

	TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking	used the word confidently in both speaking
	AWL				an and the second age of the	or writing	and writing
\$	appropriate					and the same the	and the state
	assess						
2	capable						
	constrain						
	infer						
	interact						
2	link						
	mature					MICHAEL CONTRACTOR AND A CONTRACT	
P	odd						
\$	participate	100 million			and sealing		Street, Mar
2	phase				and the second second	CALLSCREET CONTRACTOR AND A STORE OF A STREET CONTRACTOR AND A STORE OF	and the second s
	predominant				1	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	
	ratio				And Street Pro		
2	relax					MICHANNESS CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR OF CONTRACTOR CONTRAC	L'INNE C
0	task				NT TOTAL CONTRACT		www.irtanguage.c



Outside the Reading What do you know about autism? Watch the video on the student website to find out more.

Oxford 3000™ keywords

READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Have you ever known a person who had a disability? What was something that he or she was not able to do?
- 2. In what ways are people with disabilities just like everyone else?
- 3. What do you know about autism?

MORE WORDS YOU'LL NEED

disability: a condition in your body that makes you unable to use a part of your body properly.

Read

This article from a medical website blends information about autism with the story of one autistic child. Notice how the two stories are distinguished from each other.

مرجع زبان ایرانیان 🌔 🜔 🧶

THE AUTISM PUZZLE

utism is a little-understood brain disorder. It is marked by poor social and communication skills and by repetitive behavior. Meet two-year-old Shawn, who was just diagnosed with autism.

5 Shawn sits spinning the wheels of a toy car—spinning, spinning, spinning.

Shawn's parents have learned that spinning is not a typical **phase** of childhood. It is a common repetitive behavior of autistic children.

¹⁰ "Let's pretend we're cats," Shawn's three-year-old cousin suggests. "Meow," she says, walking on hands and knees. Shawn, also three now, flaps his hands in front of his face.

Most autistic kids can't pretend because they're not **capable** of imagining something that is not real. The **odd** hand-¹⁵ flapping behavior is common in kids with autism.

"Let's go to the market," Shawn's mom says. Shawn, now four, hurries to the door and stands waiting. The market is noisy with recorded music and the clatter of shopping carts. Shawn covers his ears and is soon screaming. His mom **Infers** that the ²⁰ noise hurts his ears.



AL DE LA LA LA

Extreme sensitivity to loud or harsh sounds is common in autism. So is sensitivity to bright lights and various textures.

Six-year-old Shawn is watching a Sesame Street videotape. "A B C," it sings. Shawn rewinds the tape and it repeats, "A B C."

²⁵ His mother calls, "Shawn! Don't rewind the tape." He knows this isn't allowed, but he likes to see the same part over and over. "No rewind," he answers.

Like most autistic children, Shawn likes repetition, and he can't **constrain** his behavior. His language skills are poorly developed, ³⁰ and he doesn't speak in full sentences.

Shawn's school textbook asks this question: Which of these smells good? (a) a window (b) a flower (c) a lamp. Shawn lifts the book to his nose and sniffs. None of them smells at all, so he leaves the answer blank.

³⁵ Schools usually fail to accurately **assess** the abilities of autistic children because classroom **tasks** are not **appropriate** for them. For instance, many autistic children are not able to **link** a printed word with something that is not real.

Shawn's family goes to visit Grandma and Grandpa. Shawn, now eight, rings the doorbell, opens the door, and walks in. "Hi, Shawn," says Grandma. He ignores her and turns on the TV. "Did you get wet in the rain?" Grandpa asks. "Yes. Rain," Shawn answers.

Like most autistic children, Shawn doesn't understand how 45 to behave **appropriately** in social situations, and prefers to be alone. He answers questions that people ask, but doesn't understand the give-and-take of conversation.

Eleven-year-old Shawn is playing baseball. When it's his turn at bat, he hits the ball into the outfield. "Run!" yells the team coach. Shawn walks toward first base. Meanwhile, Brad picks up the ball and brings it to Shawn. Like all players on this special team, Shawn and Brad have autism.

Most **participants** on this team are boys. That's because kids with autism are **predominantly** male, with boys

outnumbering girls by a ratio of 4 to 1. Autistic kids may have excellent physical skills, but they rarely participate in team sports because they don't understand the rules.

Shawn is doing math homework. He writes fast, and in less than five minutes he has solved 25 multiplication problems.

⁶⁰ Some autistic children do well at school subjects, but most do not. Shawn is very bright, but not academically mature. His





speaking and listening skills are poor, but in school he is good at math and spelling. He enjoys looking at photographs, and he likes maps and calendars. He ⁶⁵ frequently writes letters to Grandma and Grandpa

describing places his family has visited.

It's bedtime. Shawn showers and puts on pajamas. He brushes his teeth and climbs into bed. "I love you," says Mom, giving him a kiss. "I love you," Shawn repeats and 70 closes his eyes.

Shawn is asleep. Finally, his handsome face and sturdy body relax.



Reading Comprehension

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Mark each sentence as *T* (True) or *F* (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- 1. Shawn's parents at first thought that spinning was a typical phase of childhood.
- ____ 2. Autistic kids are not capable of imagining something that is not real.
- _____ 3. It is difficult for autistic kids to constrain their odd behavior.
- _____ 4. Shawn's mother inferred that he liked the loud music in the market.
- ____ 5. Autism seems to be linked to the sex of a child.
- ____ 6. Autistic girls outnumber autistic boys by a ratio of 4 to 1.
- 7. Autistic kids seldom participate in team sports because they don't interact with other kids.
- 8. Schools are usually unable to assess the abilities of autistic children because classroom tasks are not appropriate for them.
- ____ 9. Autistic kids may be bright, but they are not academically mature.
- ____10. Autistic kids are predominantly male, so most of them have excellent physical skills.
- ___11. Autistic children can relax when they are sleeping.

READING SKILL

Making Inferences

LEARN

To *infer* is to use indirect information or evidence to come to a decision or a logical conclusion. Parents of an autistic child must often use *inference* to understand their child's behavior because the child may not be able to explain what he wants or what he doesn't like. For example, in Reading 1, there is a sentence:

In the market, Shawn covers his ears and is soon screaming. His mom **infers** that the noise hurts his ears.

Shawn's mother *made an inference* based on what she saw. Maybe she was correct, or maybe she wasn't, but it was a logical conclusion.

Read these excerpts from Reading 1. What can you infer from the information? More than one answer may be possible.

APPLY

- 1. "Let's go to the market," Shawn's mom says. Shawn hurries to the door and stands waiting.
 - ✓ a. Shawn understands his mother's words.
 - ✓ b. Shawn obeys his mother.
 - _____ c. Shawn is in a good mood today.
- 2. Shawn rewinds the videotape and it repeats, "A B C."
 - _____ a. Shawn knows how to operate a tape player.
 - _____ b. Shawn likes to sing along with the tape.
 - _____ c. Shawn likes the ABC song.
- "Which of these smells good?" Shawn lifts the book to his nose and sniffs. None of them smells at all.
 - _____ a. Shawn has a poor sense of smell.
 - _____ b. Shawn can read.
 - _____ c. Shawn expected the words to smell.
- 4. "Did you get wet in the rain?" Grandpa asks. "Yes. Rain," Shawn answers.
 - _____ a. Shawn likes the rain.
 - ____ b. Shawn likes Grandpa.
 - _____ c. Shawn understands Grandpa's question.
- 5. "Let's pretend we're cats," Shawn's three-year-old cousin suggests.
 - _____ a. Shawn's three-year-old cousin can talk.
 - _____ b. Shawn's three-year-old cousin can pretend.
 - _____ c. Shawn's three-year-old cousin has a cat.

REVIEW A SKILL Finding the Main Idea (See p. 21)

Each story about Shawn (except the last one) is followed by a paragraph that describes a typical behavior of autistic children. Make a list of the main ideas of each paragraph in your notebook.

Vocabulary Activities STEP I: Word Level

A. Read this magazine article that gives advice to parents of autistic children. Use the target vocabulary in the box to complete the article. Compare results with a partner.

appropriate	capabilities	interact	participate	relax
assess	constrain	mature	phases	task

Experts recommend that parents enroll young children with autism in a special preschool class as early as possible. The goal is to help the children strengthen their social and language skills during the formative _ of childhood (1. time periods) and learn. classroom behavior before they enter kindergarten. (2. proper) Each day, the children_ _ in games, songs, and play activities that (3. take part) with each other. Individual children are encourage them to _ (4. mix together) assigned a daily __ , such as feeding the class pet, to help teach (5. small job) responsibility. Parents are required to attend classes with their child to learn more about autistic behavior. Observing their own child in a group setting allows them to _ the child's _ realistically_ and limitations. (6. judge) (7. strengths) Parents also see techniques that the trained teachers use to. a (8 limit) child's unwanted behavior, such as hand-flapping. Telling a child to by taking a deep breath is one technique parents learn. As the (9. become less tense)

children ______, they will remember this relaxation technique and use it to constrain their own behavior without being reminded.

B. A link is a connection between two things. Certain behaviors are linked to autism because they are common or typical in most autistic people. Working with a partner, put a check (✓) next to the behaviors that are linked to autism, according to Reading 1.

a. spinning d. being sensitive to loud no	oises <u> </u>
---	----------------

- ____ b. writing letters ____ e. watching a videotape ____ h. hand-flapping
- _____ c. pretending _____ f. preferring to be alone ______ i. liking repetition
- **C.** A phase is a step or stage of development. With a partner, look at the phases of language development in children. Number them in the order they are likely to occur, with the first phase as 1.
- _____ a. one-word sentences ("Ball.") _____ d. two-word sentences ("Mama look.")
- ____ b. babbling ("Dadadada") _____ e. three-word sentences ("Daddy, read me.")
- _____ c. cooing ("Oooooooo") _____ f. crying

The adjective *odd* refers to something that is unusual or inappropriate for a particular situation.

Some autistic kids have the odd behavior of hand-flapping.

Another meaning for *odd* applies to numbers. An odd number cannot be divided evenly by 2, such as the numbers 1, 3, 5, 7, 9, 11, 13, etc.

I always seem to have an odd number of socks in my drawer.

As a plural noun, odds refer to the chances of something happening.

The odds are one in a million that you will win the lottery.

I wouldn't give you good odds on finding a taxi at this hour of night.

D. Check (✓) the combinations that you think make odd drinks. Discuss your choices with a partner.

- ____ coffee with sugar ____ coffee with mustard ____ milk with honey
- _____ tea with honey _____ coffee with milk _____ milk with cola
- _____tea with garlic _____tea with lemon _____hot chocolate with chili pepper

Vocabulary Activities STEP II: Sentence Level

Word Form Chart					
Noun	Verb	Adjective Adverb			
assessment reassessment	assess reassess	assessable			

E. To assess something is to judge it or to form an opinion about it. Complete this paragraph about autism assessment by using a form of assess in each blank.

By age two, a typical child has developed many verbal and social skills, such as speaking and interacting with others. If these skills are absent, the child's doctor may suspect autism. There is not just a single test a doctor can use to (1) _______ a child for autism. Instead, the doctor looks for the presence or absence of certain behaviors. Autism is (2) _______ only by carefully observing the behavior of a child, so the actual (3) _______ may take several hours. The doctor (4) _______ the child's attempts to communicate with his parents. He also looks for repetitive behavior, such as hand-flapping, or sensitivity to sounds or textures. If the doctor's diagnosis is autism, he may suggest a (5) ______ by a second doctor to confirm the diagnosis. Over the next several years the child will be (6) ______ regularly to see if he has made progress.

CORPUS

- F. A *task* is a small job, often one that is assigned by a teacher, parent, or boss. Using what you know of Shawn's skills from Reading 1, infer which of these classroom tasks will probably be difficult for him and which he will do easily. Write sentences in your notebook about each task.
- 1. writing about his vacation

Shawn can probably do this **task**. He often writes letters to his grandparents about places he visited with his family.

- 2. taking a spelling test
- 3. solving subtraction problems
- 4. working with a committee to plan a class party
- 5. giving an oral report

The adjective *appropriate* refers to something that is suitable, proper, or correct for a particular situation. People sometimes disagree about what is appropriate or inappropriate. The noun form is *appropriateness*.

What is appropriate to wear to a job interview?

Meg is appropriately dressed in a suit. Jeans and a T-shirt are inappropriate.

The interviewer commented on the inappropriateness of Sam's clothes.

As a verb, *appropriate* means "to decide to give something, especially money, for a particular purpose." The noun form is *appropriation*. This meaning is rather formal and official.

The university **appropriated** one million dollars for a new autism study.

The business plan includes an appropriation for local charities.

- CORPUS
- **G.** Read these short conversations. Some of Sam's responses are odd. Write a sentence about the appropriateness of Sam's reply using the word in parentheses.
- 1. Mark: "Thank you for the birthday card."

Sam: "How old are you?"

(appropriate)_

 Mark: "Are you coming to my party tonight?" Sam: "Thank you."

(appropriate) ____

- Mark: "Can I borrow your pen?" Sam: "I know how to spell." (inappropriate)______
- Mark: "Have you seen my brother?" Sam: "No."

(appropriate) _

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. Think of some common illnesses. What causes them?
- 2. Think of some common illnesses. How are they cured?
- 3. Why might a pharmaceutical company be willing to fund research into the causes of autism?

🛈 Read

This journal article details some of the current research into autism and some possible causes for it.

Looking for Answers

utism is a neurological disorder that usually appears before a child's third birthday. It is marked by impaired language skills, impaired social skills, and repetitive behaviors.

RECENT INCREASE IN AUTISM

Recently there has been a dramatic and unexplained increase in the 5 number of children diagnosed with autism. Medical scientists estimate

- an autism **ratio** of 1 in every 110 children in the United States. Other countries show similar high **ratios**: 1 in 160 in Australia, 1 in 250 in India, and 1 in 475 in Japan, for example. Scientists believe that
- the differences among countries may reflect how children are evaluated rather than the actual proportion of children who have autism. These numbers are alarming to scientists because they do not know what causes autism and do not know how
- 15 to cure it. Medical researchers have been looking for answers.

THE AUTISM SPECTRUM

Scientists use the term "autism spectrum" to refer to the range of abilities that autistic people display. At one end of the spectrum, individuals are severely



Temple Grandin holds a doctorate degree. She also has autism.

20 affected, while at the other end, individuals are only She also has autism. mildly affected. Some individuals cannot speak; others are highly verbal. Some are overly sensitive to noise; others seem not to notice it. Some prefer to be alone; others want friends. Some even marry and have children. Some are unable to learn school subjects; others go on to earn a Ph.D. degree.

25 Indeed, each person with autism may have a unique set of traits.

THE AUTISM PUZZLE 121

LOOKING FOR CAUSES OF AUTISM

Although scientists agree on the traits that characterize autism, they have not yet found what causes autism. In the 1950s, autism was considered a psychological disorder, caused by "refrigerator mothers." Their personalities were thought to be so cold and uncaring that their children grew up unable

- ³⁰ to speak or **interact** with others. As research progressed, scientists realized that autism was actually a neurological, or brain, disorder. Studies have identified several areas of the brain that differ from the norm in autistic individuals. These areas involve emotions, critical thinking, learning, and paying attention. However, no one area seems to hold the key to autism.
- ³⁵ Some researchers have **inferred** that faulty connections between areas of the brain may be responsible for autism. Or perhaps there are too many connections. That could cause an overload of messages within the brain.

Medical scientists have also explored brain chemistry. In a recent study,

researchers took blood samples from many

⁴⁰ newborns. When some of these babies later developed autism, the researchers tested their early blood samples and found high levels of four chemicals that influence the early **phases** of brain development. However,

- ⁴⁵ they have not been able to prove a direct link between the chemicals and the autism. There is strong agreement that genes, the carriers of inherited traits, play a role in autism. Research continues to explore
- ⁵⁰ heredity as a cause. Recently, researchers found a **link** between autism and the age of the child's father, with the **odds** of parenting an autistic child increasing with older



60 connections in the brain, autism can occur.

Scientists are also investigating environmental causes. They have looked into toxic metals in water and soil, harmful chemicals in household products, viruses, air pollution, and even television viewing, but have not found a consistent **link** to autism. Recently, some scientists have suggested that a 65 combination of hereditary and environmental factors may cause autism.

TREATING AUTISM

Despite this extensive research, scientists so far have been unsuccessful in finding either a cause or a cure for autism. However, treatment, either through medication or training, has benefited many autistic children by helping them to **relax**, to **constrain** antisocial behavior, to **participate**

⁷⁰ socially, and to learn useful skills. Medication has worked for some children. However, it has not been widely used because it can have serious side effects. Other treatments that have worked for some children include







controlling the child's diet, providing the child with an animal to take care of, and encouraging self-expression through art. The ⁷⁵ Chinese use acupuncture and **relaxation** programs.

APPLIED BEHAVIOR ANALYSIS

A common training is Applied Behavior Analysis, which breaks down a **task** into tiny steps and rewards every small success with a bit of cookie or other treat. If a child does not speak, for example, the therapist will reward even a small sound a child makes when

she asks him to repeat a word. It may take several sessions to get the child to utter a sound, and many more to get him to say a word, but each success is praised and rewarded. Many autistic children have improved greatly with such training, but others have not.

Whatever treatment parents decide is **appropriate**, they must be ⁸⁵ aware that children are most likely to benefit if they begin early.

- Delaying treatment until the child **matures** is a waste of valuable time. Parents must also recognize that not all treatments benefit every child, so they must regularly **assess** their child's behavior for signs of progress. Treatment that doesn't work is also a waste of time.
- ⁹⁰ Meanwhile, scientists are still looking for answers to solve the autism puzzle. ■



Scientists have yet to solve the "autism puzzle."

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Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. Researchers found four chemicals that influence the early phases of brain development.
- ____2. As a man gets older, the odds increase that he will parent an autistic child.
- ____3. There is strong agreement that heredity is the predominant cause of autism.
- ____4. Researchers have found a link between autism and television viewing.
- ____5. Medication has helped some autistic children constrain their behavior.
- ____6. Children who participate in Applied Behavior Analysis learn a task one step at a time.
- ____7. Parents must regularly assess their child's behavior for signs that they are wasting time.

READING SKILL

Making Inferences

APPLY

Reread the paragraphs indicated. Then, write *D* for the ideas that are directly stated and *I* for those that you can infer. Write *N* if an idea is not directly stated or cannot be inferred. Discuss your answers in a small group.

PARAGRAPH 2

- D 1. Scientists do not know the cause of autism.
- ____ 2. There is no cure for autism.
- <u>1</u> 3. Scientists cannot explain the recent increase in autism.
- _____4. Scientists are not sure how many children are affected.
- ____ 5. Scientists are alarmed.

PARAGRAPH 3

- ____1. A person who is mildly affected with autism is highly verbal.
- ____2. Some people with autism are very intelligent.
- <u>3.</u> Not all autistic people prefer to be alone.
- ____4. The term "autism spectrum" was recently created.
- ____5. Each autistic person may have a different combination of traits. PARAGRAPH 4
- ____1. Autism is not a psychological disorder.
- ____2. A neurological disorder is a disorder involving the brain.
- ____3. Scientists are not certain if faulty connections within the brain cause autism.
- _____4. Scientists have abandoned their study of the brain.
- ____5. Several areas in the brain of autistic children differ from those in normal kids.

Vocabulary Activities STEP I: Word Level

A person who is *capable* of doing something has the necessary skills to do it. If he lacks these skills, then he is *incapable* of doing it. The words can also refer to objects.

Most autistic children are **incapable** of imagining something that is not real. Passenger airplanes are **capable** of flying overseas without refueling.

CORPUS

incapable of doing.	de which of these activities a bli Fake turns making sentences with the sentences with the set listening to music	
	bable of listening to music.	
	riding on a bus reading a newspaper	
To <i>relax</i> means to stop body less tense by loos	working and rest. It can also ening your muscles.	mean to make your
When he sleeps, Shav	wn can finally relax and get some	e rest.
To <i>relax</i> <u>something</u> me	ans to make it looser or more	flexible.
Teachers often relax	<u>classroom</u> <u>rules</u> for students with	n disabilities.
	ence with relax or relax it.	
1. I've worked hard al	l day. It's time to <u>relax</u>	
2. Sometimes you can	cure a headache if you just	· ·
3. The law against spo	eeding is too strict. I wish the	government would
0		

4. Don't pull the rope so tight. Can you please _____?

5. I often play the piano to ____

Word Form Chart				
Noun	Verb	Adjective	Adverb	
constrain constraints	constrain	constrained unconstrained		

C. To constrain someone or something is to hold them back or limit their actions. With a partner, decide which behaviors you think parents should constrain in their children.

. .

<u>1</u> . studying	4. playing	7. laughing
2. screaming	5. watching TV	<u>8. arguing</u>
<u>3</u> . sleeping	<u> </u>	<u>9</u> . surfing the Internet

- **D.** The plural noun *constraints* is a more formal way of describing limits. Match the formal language with its more informal version.
- ____1. I have financial constraints.
- <u>2.</u> I have medical constraints.
- ____ 3. I have time constraints.

2

- _____4. I have transportation constraints.
- ____ 5. I have family constraints.
- <u>6. There are legal constraints to selling my house.</u>

a. I promised my parents I would visit them.

- 1 1.

- b. I have to finish this by tomorrow.
- c. My car won't start.
- d. I can't afford that right now.
- e. I need to see a lawyer about this.
- f. I'm not healthy enough to do that.

Vocabulary Activities STEP II: Sentence Level

Word Form Chart				
Noun	Verb	Adjective	Adverb	
maturation		mature		
maturity	mature	immature	- Josepher	
immaturity		maturational		

To *mature* refers to the process of becoming fully developed physically or mentally. If someone or something is *immature*, then development is delayed compared to others.

As boys mature, they become taller and more muscular.

Susan is ten, but she's so **Immature**.

There are two noun forms:

maturation the process of developing or aging *maturity* the state of being fully developed

E. Read this paragraph. Then, complete it by using the correct form of *mature* from the chart. Compare answers with a partner.

A premature baby is one that is born before it is fully developed. Because of its (1) _______, a premature baby is usually placed in a hospital incubator where it can continue to (2) _______ in a safe environment. A baby born too soon has not had time for adequate (3) _______ of body systems that are essential for life. The baby's (4) ______ lungs, for example, may not be able to supply enough oxygen, so it will need help breathing. The baby will remain in the incubator until it has achieved a safe level of (5) ______. The baby will make steady progress, but its growth will be delayed compared to that of a full-term baby. For example, a full-term baby may sit up at six months of age, but a premature infant may not reach this (6) ______ phase for several more months.

Word Form Chart				
Noun	Verb	Adjective	Adverb	
predominance	predominate*	predominant	predominantly	

*Note: There is no -ing form for this verb.

Predominance and its related word forms refer to being greater in importance, strength, number, or some other factor.

Tall players **predominate** in the game of basketball. They are **predominant**. There is a **predominance** of brown-eyed people in the world. Humans are **predominantly** brown-eyed.

F. Read the paragraph about Temple Grandin. Then, rewrite the sentences that follow in your notebook, using the form of *predominant* in parentheses.

Temple Grandin is autistic, yet she has a Ph.D. and is a university professor. Dr. Grandin has written several books about autism. Her superior verbal skills and intelligence have enabled her to analyze and describe how individuals with autism think. She writes, "I think in pictures. Words are like a second language to me. I translate both spoken and written words into fullcolor movies."

1. Among high-functioning autistic individuals, most are visual thinkers. (*predominance*)

There is a **predominance** of visual thinkers among high-functioning autistic people.

- 2. Nouns are easiest because they are mostly things you can picture. (*predominantly*)
- 3. Most people are verbal thinkers in universities. (predominate)
- 4. Dr. Grandin was surprised by the number of people who think only in words. (*predominance*)
- 5. Seeing pictures in her mind is the way Temple Grandin creates ideas. (*predominant*)
- **G.** A *ratio* is a mathematical expression comparing the size or amount of two sets of things. Write a sentence in your notebook to express the ratios of these groups. Discuss your sentences in a small group.
 - 1. at birth: boys, 105; girls, 100

At birth, boys outnumber girls by a ratio of 105 to 100.

- 2. autistic children: girls, 1; boys, 4
- 3. adults who are colorblind: men, 15; women, 1
- 4. at age 65: women, 10; men, 7
- 5. people in my family: male, _____; female, _____;
- 6. communication I receive: email, _____; phone calls _____
- 7. school time: hours in class, _____; hours studying, _____

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Word Form Chart				
Noun	Verb	Adjective	Adverb	
participant participation	participate	participatory		

H. Read this description of an autism study. Then, complete the paragraph by using the correct form of *participate* in each blank. Compare answers with a partner.

Several young children are asked to (1) ______ in an experiment.

Half of the (2)______are typical children, and half of the

(3) _____ are autistic children. Their (4) _____ consists

of watching a scene in which two little girls are playing with dolls. One of the

girls, Mary, puts her doll in a basket and leaves the room. While she is gone, her

friend, Linda, takes the doll out of the basket and puts it into the drawer of a

table. Then Mary returns. The children who are (5)______ in the

experiment are asked, "Where will Mary look for her doll?" The typical children

agree that Mary will look in the basket because that's where she left the doll.

However, the autistic children say that Mary will look in the drawer because that's

where the doll is. This experiment demonstrates that autistic kids cannot imagine something that is not true.

- I. Imagine that you were one of the scientists who conducted the above experiment. In your notebook, write a brief conclusion that describes what you learned from the experiment about children with autism.
- J. Self-Assessment Review: Go back to page 113 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or a small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Why might it be difficult to be friends with an autistic person? What would be some of the challenges?
- 2. The first reading is called "The Autism Puzzle." Why is this a good title?
- 3. What are some facts you learned about autism?





Sea of Life

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In this unit, you will

- learn about humans' impact on oceans and important deep-sea discoveries.
- review identifying definitions.
- increase your understanding of the target academic words for this unit.

READING SKILL Reading Statistical Tables

Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in either speaking or writing	used the word confidently in both speaking and writing
AWL					or writing	and writing
aggregate						
🁌 annual				and the second second		
compatible		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				States and the second
e conduct					COLORD CALL AND	
sontribute					Local Science And	
erode						Comment of the
finite						-
🎤 impact					enn are a _{ar}	annan
🖉 оссиру					terre and the second second	
process	a					
temporary						
terminate						
trace						
e ultimate					a marine and a state of	www.intenguage.com



Outside the Reading What do you know about oceanography? Watch the video on the student website to find out more.

Oxford 3000™ keywords

READING 1

Before You Read

Read these questions. Discuss your answers in a small group.

- 1. How often do you eat fish?
- 2. Do you ever visit the ocean to go fishing or to relax on a beach?
- 3. How do oceans benefit people?

Read

000

This article is part of a series of articles about our changing oceans.

SAVING THE OCEANS

he oceans of the world **occupy** over 70% of the earth's surface. They provide food for billions of people, serve as places of recreation, and facilitate the transportation of passengers and cargo.

- For all of human history, people regarded the oceans as an indestructible and infinite resource.
 Until recently, humans had little impact on the oceans. However, as the earth's population increases, human activity will
- ¹⁰ **ultimately** destroy the oceans unless immediate steps are taken.

OVERFISHING

Overfishing is one major threat. Fish are being taken out of the oceans faster than the remaining fish can reproduce. A big fish—tuna, cod, shark,

- ¹⁵ or swordfish—yields many pounds of delicious seafood when it reaches maturity. However, to meet the increasing demand for these fish, commercial fishermen began catching small, immature fish. In the **process**, they almost
- 20 destroyed the species. Ocean scientists estimate that 90% of these big fish are now gone from the oceans, and about 30% of all fished species have been destroyed.



A commercial fishing operation

OCEANS AS A SOURCE OF FOOD

Of the earth's seven billion people, over one billion rely on fish as

²⁵ a source of protein. Billions more eat fish frequently because of its health benefits and its good taste. Throughout the world, food from the sea provides between 5% and 10% of the total food supply. But when fish disappear from the oceans, they will also disappear from our dinner plates. The **impact** on those who rely ³⁰ on fish could be malnutrition or even starvation.

HOW HUMANS IMPACT OCEANS

Humans are **impacting** ocean life not only by what they take out of the oceans, but also by what they put into the oceans. Carelessly discarded cans,

- ³⁵ bottles, plastic cups, and baby diapers find their way into the stomachs of fish, often killing them. Toxic chemicals and industrial trash are also discarded into the oceans, either accidentally or
- ⁴⁰ thoughtlessly. Such **conduct** pollutes the water and kills sea life. Spills from a single oil tanker can **contribute** 200,000 tons of oil to the already polluted oceans. In the United States,



Trash that has ended up in the ocean

⁴⁵ an estimated 15,000 tons of automobile oil **annually** washes off roads into rivers and streams and **ultimately** into the sea.



Along with the harmful oil, however, run-off also carries tons of nutrients in the form of plant matter, fertilizers, animal waste, and garbage that can be **traced** to cities, farms, factories, and ⁵⁰ forests. Poisonous algae and bacteria (microscopic plants and animals) in the ocean feed on the nutrients. As the run-off increases, the **aggregation** of algae and bacteria increases, further **eroding** the marine environment. Small fish that feed on the algae and bacteria are sickened or killed by the poisons they

⁵⁵ contain. When larger fish feed on the smaller ones, they too are
sickened by the poisons. **Ultimately,** humans who eat the flesh of poisoned fish will be sickened, too.

STEPS THAT CAN SAVE THE OCEANS

Are healthy oceans **compatible** with an industrialized world? What can be done to **terminate** the steady destruction of the

- 60 oceans? Among other steps, countries can set limits on the number of fish that fishermen can legally catch. Governments can also create sea reserves, areas where fishing is **temporarily** banned until the fish population increases. Commercial enterprises can develop open-ocean aquaculture to grow fish in
- ⁶⁵ underwater cages miles from land. And individuals can refuse to buy fish in restaurants and markets if the species is threatened.

Governments can also protect the sea by enacting strict controls on ocean dumping. They can demand that oil tankers have higher safety standards. They can **process** run-off water to remove toxic

⁷⁰ substances. Individuals can properly dispose of leftover household and garden chemicals so they do not add to the toxic run-off into the oceans.

Scientists agree that it's not too late to save the oceans, but we must begin at once to take the necessary steps.

Reading Comprehension

Mark each sentence as T (True) or F (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____ 1. Human conduct had little impact on the oceans until recently.
- ____ 2. Humans occupy over 70% of the earth's surface.
- _____ 3. For all of human history, people thought of the oceans as a resource that was infinite and indestructible.
- 4. Steps must be taken to terminate human activity that may ultimately erode the quality of the oceans.
- ____ 5. Overfishing may temporarily benefit certain species of fish.
- ____ 6. Discarding trash into the oceans greatly contributes to pollution.
- 7. Increases in the aggregation of algae and bacteria can be traced to the nutrients in run-off from cities, farms, factories, and forests.
- _____ 8. Oil tankers annually spill 200,000 tons of oil into the oceans.
- _____ 9. It isn't possible to process run-off water to remove toxic substances.
- ____10. Healthy oceans are compatible with an industrialized world if necessary steps are taken to protect the oceans.

READING SKILL

LEARN

Articles about scientific topics frequently contain statistics that support the information in the text. The table in Reading 1, for example, compares the amount of fish collected, or harvested, by several nations of the world to support the information about overfishing.

Numerical information in tables is often reduced for clarity. The table in Reading 1 eliminates the many zeros in the numbers by telling the reader that amounts are in million tons. So, for Chile, the number 4.2 really means that Chile harvested 4,200,000 tons of fish. Shortened numbers are read differently from complete numbers. Chile's harvest is read "four point two million tons."

Numbers in tables are also often rounded up or down. The actual number of fish might be 4,198,314 tons, for example, but that number is rounded up to 4.2 million tons.

APPLY

- A. Complete the tasks with a partner. Use the information in the table in Reading 1.
- 1. In the order of their fish harvests, read all of the country names and their fish harvests out loud. Use shortened numbers, such as "Chile—four point two million tons."
- 2. From biggest harvest to smallest, write all of the complete numbers, such as 4,200,000. Then, read them out loud.
- **B.** What can you infer from the information in the table? Mark a statement *I* if you can infer that it is true. Mark a statement *N* if you cannot infer that it is true.
- ▶ a. The United States harvested more fish in 2008 than in 2007.
- _____ b. Fishing is an important industry in these countries.
- _____ c. About half of the top countries are in Asia.
- _____ d. Indonesia harvested more fish than Norway.
- _____e. The numbers do not include fish caught in rivers and lakes.
- ____ f. All the fish is eaten by people within the country that harvests it.
- ____ g. China harvested about 18% of the world total in 2008.
- ____ h. Canada did not harvest fish in 2008.

REVIEW A SKILL Identifying Definitions (See p. 69)

Find definitions in Reading 1 for the words nutrients and algae.

Vocabulary Activities STEP I: Word Level

A. Use the target vocabulary in this unit to complete these analogies. Then write the type of relationship each analogy has: example, synonym, antonym, action, or part. (See Unit 1, page 13, for more on analogies.)

	Relationship
1. start : end AS begin :	
2. house : permanent AS tent :	
3. grow : build AS destroy :	
4. player : team AS part :	
5. phase : development AS step :	

- **B.** Erosion is the gradual process of something being destroyed or worn away. It can describe natural or biological processes or more abstract ideas. The verb form is erode. With a partner, decide what might cause the erosion of the following.
- 1. mountains4. a store's reputation
- 2. a person's health 5. a person's plans to travel
- 3. the soil on a farm6. a friendship

The verb *aggregate* (pronounced AG-gre-gate, with a slight stress on the last syllable) means to collect items into one body or mass.

The company will aggregate its small stores into one superstore.

The adjective form is spelled the same way but is pronounced slightly differently (AG-gre-git, no stress on the last syllable).

The aggregate effect of pollution is depletion of sea life.

The noun has two forms: *aggregate* (pronounced like the adjective) and *aggregation*.

- C. With a partner, decide what to call an aggregation of these items. More than one answer is possible.
- 1. an aggregation of stores: ______ a shopping mall, a shopping center
- 2. an aggregation of books:
- 3. an aggregation of plants: _____

CORPUS

- 4. an aggregation of people:_____
- 5. an aggregation of printed pages:
- D. An annual event is one that occurs once a year or is repeated every year. With a partner, check (✓) the events that occur annually. When in the year do they take place?
- _____spring _____your birthday _____new classes _____New Year's Day _____a wedding _____animal migration _____a full moon _____October _____family gatherings

When something is. *finite* (pronounced FI-nite, rhyming with SKY-light), it is fixed in space or amount and can be measured.

The amount of oil in the world is finite. When we use it up, there is no more.

Something *infinite* (pronounced IN-fi-nit) is without limits. This word is often used for something that seems endless, very great, or not measurable.

She is infinitely patient with the children in her class.



- ____1. The oceans seem infinite.
- ____ 2. Oil tankers hold a finite amount of oil.
- _____ 3. Whales have a finite number of teeth.
- _____4. There's an infinite number of fish species.
- ____ 5. I am infinitely fascinated by whales.
- a. There sure are lots of them.
- b. They seem to go on and on.
- c. They're really interesting.
- d. They don't grow new ones.
- e. They can't hold any more.
- F. With a partner, use the target vocabulary to complete this article on the impact of global climate change.

annual	contributed	impact	traced
compatible	erosion	process	ultimately

Today there are 20	0,000 to 25,000 polar bears world	dwide. This represents a
decline of 21% over the	he last 20 years that can be direc	tly (1)
to global climate char	nge. As the average (2)	ocean temperature
in the Arctic rises, the	e bear population declines. The b	ears' way of life is not
(3)	with a warm climate because	they depend on sea ice
for summer hunting.	The (4) of gi	lobal climate change
has caused an (5)	of the polar bea	ar environment. It has
(6)	_ to weight loss in the males, fal	ling reproduction rates in
the females, and lowe	er survival rates among newborn	cubs. If the overall warming
(7)	of global climate change cont	inues at its present rate, the
polar bears will (8) _	disappear.	

Vocabulary Activities STEP II: Sentence Level

When people or things are *compatible*, they get along well or work together well. The negative form is *incompatible*. The noun forms are *compatibility* and *incompatibility*.

Ahmed and Hakim were successful business partners because they were **compatible**.

Electrical appliances are often incompatible with foreign power systems.

G. Work with a partner. Imagine that one of you has an old computer. That person goes to a computer store to buy some new equipment and software for it. The other person is a clerk in a computer store. Create a short conversation that includes the words compatible, incompatible, compatibility, and incompatibility in at least two questions and two answers between the two people.

A: Is this printer compatible with my computer?

B: Actually, incompatibility is often a problem with these older models.

The word *impact* has two meanings. It can refer to a strong force hitting something, or more abstractly, to the strong effect something has or creates. Both meanings have a noun and verb form.

We felt the **impact** of the explosion a mile away. The world economy **impacts** all our lives.

- H. In your notebook, rewrite each sentence two ways, using *impact* once as a noun and once as a verb.
- 1. The shortage of fish has affected the fishing industry.

The shortage of fish has had an **impact** on the fishing industry. The shortage of fish has **impacted** the fishing industry.

- 2. Her new job affected the whole family.
- 3. The collision had a different effect on each of us.
- 4. The new law will change the way people pay their taxes.

To *contribute to* something means to add or give something to a larger activity.

The adjective form is a contributing + factor/cause/element/etc.

High winds **contributed** to the accident. High winds were a **contributing** factor to the accident.

To *contribute* means to give money or assistance, usually to a charity. The noun form is *contribution*.

I contribute annually to Save Our Oceans. I send a contribution to the Red Cross, too.

Collocations (words that go together): to make/send a contribution

I. In your notebook, rewrite the following sentences to include a form of contribute.

In April 2010, an explosion of an oil rig caused a massive oil spill in the Gulf of Mexico. BP owned the rig.

1. BP admitted to mistakes that helped cause the oil spill.

BP admitted to mistakes that contributed to the oil spill.

- Oil rose to the surface of the ocean. Strong winds made the oil spread over 4,000 square miles.
- 3. BP gave \$20 billion to build a fund to help pay for damages and clean-up.
- 4. Thousands of volunteers gave money and time to help rescue sea animals.

READING

Before You Read

2

Read these questions. Discuss your answers in a small group.

1. Some people claim that we know more about the moon than we know about our oceans. Do you agree?

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- 2. What is the value of exploring the ocean floors?
- 3. Who should pay for exploring the oceans? Why?

Metric conversions for measurements used in Reading 2:

- 1 inch = 2.54 centimeters 1 pound = 0.45 kilogram
- 1 foot = 0.3 meter 1 knot = 1.85 km/hour
- 1 mile = 1.6 kilometers



This article about underwater exploration appeared in a science magazine.

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Exploring the Deep Ocean

Alvin can dive to ocean depths of 20,000 feet nearly four miles down. Alvin can rest on the ocean bottom or hover at middle depths for up to ten hours, taking photographs and performing

⁵ underwater experiments. Alvin is amazing. Many of the 150 to 200 dives Alvin makes **annually** result in underwater discoveries of unusual sights never before seen.

FACTS ABOUT ALVIN

Alvin is not a man. Alvin is a deep-sea ¹⁰ submersible craft capable of carrying up to three **occupants**. It is owned and operated by the Woods Hole Oceanographic Institution on the east coast of the United States. Alvin was built in 1964, but it has been upgraded and



The deep-sea submersible, Alvin

¹⁵ reconstructed many times since then. Alvin's titanium hull, or outside shell, is built to withstand the **impact** of the immense pressure of the deep ocean. Alvin weighs 37,400 pounds and is 23 feet 4 inches long. It has a six-mile range and a top cruising speed of two knots. Five hydraulic thrusters propel the craft, and lead-acid batteries power the
²⁰ electrical system.

Inside is an **infinite** variety of the latest electronic equipment, including a gyrocompass, a magnometer, and a computer **terminal**.

Alvin allows researchers to **conduct** underwater biological, chemical, and geological studies. Special lamps

²⁵ shine light into the black water so observers can see the wonders of the underwater environment. Cameras are mounted on the outside to take underwater photographs, and two external "arms" enable researchers to collect underwater samples.

ALVIN'S AMAZING DISCOVERY

- ³⁰ One day in 1977, Alvin **contributed** to an amazing discovery. On that day, Alvin was transporting scientists on a routine study. The craft was one and a half miles below the surface of the sea near the coast of the Galapagos Islands. As they looked through the three
- 35 12-inch portholes, the scientists were temporarily stunned to see a strange underwater landscape littered with what looked like chimneys. The chimneys were discharging clouds of black smoke into the surrounding water. Clustered around the chimneys was an
- ⁴⁰ **aggregation** of odd creatures that lived totally cut off from the world of sunlight. The scientists were looking at hydrothermal vents and the strange sea creatures that exist near them—an entire system of life based not on sunlight, but on energy from the earth itself.



A hydrothermal vent, or "chimney"

STRANGE SEA CREATURES

- ⁴⁵ An unusual kind of animal life exists around these vents. Among the chemicals pouring out of the vents is hydrogen sulfide, a gas that is poisonous to most landbased life. However, bacteria in the seawater near the vents feed on this gas and other dissolved chemicals and
- ⁵⁰ minerals pouring from the vents. Then tiny animals feed on the bacteria, and these tiny animals **ultimately** become food for still larger animals. Giant red and white tube worms eight feet tall cluster near the vents and dominate the scene. Tiny shrimps and white crabs
- ⁵⁵ feed on the worms while giant clams rest in the sand. In an environment that seems **incompatible** with life, these creatures are thriving.

WHAT IS IN THE FUTURE?

Since the first vent was discovered in 1977, hundreds of other vents have been located in oceans around the world. In 2008, a cluster of five vents

- ⁵⁰ was discovered in the Atlantic Ocean between Greenland and Norway. Some of the sites are inaccessible, so scientists have not been able to study them all. However, scientists are planning to **trace** the development of vents by revisiting some they studied earlier. They want to find out if the vents will **erode** or remain active over time and if the odd creatures
- 65 will change. 🔳



Ocean life growing near the vents

Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. Alvin makes between 150-200 dives annually.
- 2. Alvin is a man who temporarily helped researchers conduct underwater studies aboard a submersible craft.
- ____3. Alvin's occupants have an infinite variety of electronic equipment available.
- ____4. Alvin contributed to the discovery of the Galapagos Islands in 1977.
- ____5. Near vents, aggregations of giant tube worms, shrimps, and crabs exist in an environment that seems incompatible with life.
- 6. Scientists plan to revisit some of the vents in order to trace their development.
- ____7. Scientists will terminate their study of vents because some vents are inaccessible.

READING SKILL

Reading Statistical Tables

LEARN

Facts about numbers are often difficult to read when they are included as part of the text of an article. For this reason, scientists and technicians usually create a specification sheet, or "spec sheet," to isolate these numbers.

APPLY

Using information from Reading 2, complete this spec sheet about Alvin. You may use the system of measurement in the article or convert those numbers to the metric system.

	Alvin General Specifications
Length	
Weight	
Maximum Depth	
Maximum Speed	
Range	
Occupants	The second se
Propulsion	
Electrical System	and the second
Equipment (Internal)	
Equipment (External)	

Vocabulary Activities STEP I: Word Level

Something temporary exists or is used for only a short time. Temporarily is the adverb form. The temporary ban on tuna fishing ended last week. Shipping was temporarily halted by a tsunami. A. With a partner, decide which of these are temporary. ____ a summer job ____ a mountain ____ a substitute teacher ____ a street name ____ a rainstorm ____ an oil spill _ a cloud _ a full moon _ an emergency ____ a highway ____ a puddle of mud _ an ocean Literally, *ultimate* refers to the last or final thing. More commonly, it is used to indicate an extreme, such as the best or worst. Ultimately can mean "finally" or "basically." For me, the ultimate vacation is two weeks aboard a luxury cruise ship. We tried to fix it several different ways but ultimately decided to buy a new one. CORPUS

- B. With a partner, think of different ways to end these sentences.
- 1. I waited for a long time, hoping to catch a fish. Ultimately, ...

Ultimately, I gave up and went home.

Ultimately, I caught a big one.

- 2. We couldn't decide where to eat dinner. My friend wanted Chinese food and I wanted seafood. Ultimately, . . .
- 3. The turtle struggled to get back into the water. Ultimately, ...
- 4. My cell phone was making odd noises. I shook it and banged it on the table. Ultimately, . . .
- 5. The ultimate in awful food is . . .
- 6. We are almost finished painting the house. The ultimate step is . . .

Word Form Chart					
Noun	Verb	Adjective	Adverb		
terminal termination	terminate	terminal	terminally		

The word terminate and its forms have many uses, all related to "end" or "ending."

I terminated the agreement with my cell phone company because their service was bad. Failure to follow the rules will result in termination of the game. Ed was terminated after working for the company ten years. My grandfather has terminal cancer. Her plane arrives at Terminal C, Gate 7, at 7:36 p.m. Each office had forty or more computer terminals.

Note: terminate cannot be used in place of ultimate.

C. With a partner, match each sentence on the left with the one that explains it on the right.

b. He hung up.

d. He is very ill.

e. He's moving soon.

f. He used his computer.

c. He wanted to take a bus.

____1. Pedro terminated the lease on his apartment. a. He was fired.

____ 2. Filipe's uncle has a terminal illness.

- ____ 3. Hiro was terminated from his job.
- _____ 4. Hans waited at the downtown terminal.
- ____ 5. Pham spent hours at his desk terminal.
- ____ 6. Suhart terminated the phone conversation.

A trace is evidence that something happened or existed.

I could see traces of mice in the garage.

A trace is also a small bit of something.

The river had trace amounts of toxic substances in it.

To *trace* something is to follow its history or development. Not everything is traceable. Sometimes records are lost or unknown.

The book traced the history of deep-sea exploration.

The oil spill was traceable to a small tanker in the North Sea.

Another meaning for *trace* is to copy the outlines of a diagram or picture.

He put a piece of paper over the picture and carefully traced its shape.

D. With a partner, match the person on the left with the kind of tracing he or she might do. Take turns making sentences.

<u>a</u> 1. an artist

a. a picture

An artist might trace a picture.

- ____ 2. the post office
- ____ 3. a scientist
- ____ 4. a grandmother
- ____ 5. the police
- ____ 6. a small child

- b. a family history
- c. the life cycle of a whale
- d. a lost package
 - e. the letters of the alphabet
 - f. the owner of an abandoned car
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CORPUS

Vocabulary Activities STEP II: Sentence Level

The word conduct has different meanings in its noun and verb forms.

As a verb, *conduct* (pronounced con-DUCT) refers to something that you organize and carry out. It can also mean to lead an activity or group. This meaning has no other word forms.

Scientists conducted several underwater experiments.

She has conducted a number of choirs.

Collocations (words that go together):

an experiment	an investigation	a test	a meeting
an orchestra	a class	a tour	a search
a survey	a demonstration	a project	a discussion

The noun (pronounced CON-duct) is a more formal word for behavior.

This is clearly a case of improper professional conduct.

CORPUS

E. Match the people in the first column with an activity in the second column and the purpose or topic of their activity in the third column. Write complete sentences in your notebook using different forms of the verb *conduct*.

A visiting professor **conducted** a class on the future of sea exploration.

1. a visiting professor	a survey
2. detectives	a class
3. marketers	an experiment
4. a famous composer	a search
5. ocean scientists	a local orchestra

playing his Symphony in F for the missing murder weapon to identify future customers the future of sea explorationon poisonous algae

Word Form Chart						
Noun	Verb	Adjective	Adverb			
occupancy occupant	оссиру	occupied occupying				
occupation		occupational	occupationally			

The word occupy has several meanings.

To have possession of a particular physical space:

Do you know who **occupies** that apartment? Hotel rates are based on double **occupancy**; there is an extra charge for a third person.

To fill a space, a period of time, or one's thoughts:

Studying occupied my weekends until I graduated.

Politically, to take over a country or area by force and run it:

A foreign army once occupied this country. The occupation began in 1850.

The noun form occupation refers to the work that a person does.

Everyone in my family has the same occupation—we're all farmers.

A police officer has to face many occupational hazards.

If something is *occupied*, it is in use. If a person is *occupied*, then she is busy.

The bathroom was **occupied**, so I waited my turn.

I am occupied all day with meetings.

- F. In your notebook, rewrite the following sentences to include the given form of occupy.
 - 1. There is a computer inside Alvin. (occupies) A computer occupies space inside Alvin.
 - 2. Dr. Lee works as an ocean scientist. (occupation)
 - 3. Alvin has room for three people. (occupants)
 - 4. Scientists spend most of their time looking out of the view ports. (occupies)
 - 5. Giant tube worms live in an underwater environment without sunlight. (occupy)

Process refers to change. A *process* can refer to a natural event that occurs in gradual steps or a series of actions directed toward a particular result.

The process of tree growth can be traced through its rings.

How did an author ever write a book without a word processor?

From the processing plant, the processed fish is transported to markets.

Process can also refer to checking information, fees, or other materials submitted in order to achieve something.

The university processes thousands of applications for admission.

The phrase *in the process* can suggest two different ideas. In one context, it means a person has started a complex procedure but has not completed it yet.

Helen is **in the process** of finishing her essay for her college application.

In other contexts, it describes how one action results in something unexpected.

I was cooking dinner, and **in the process** I burned my thumb.



CORPUS

1. Scientists observed how vents are formed. (the process of)

Scientists observed the process of vent formation.

- 2. Vents are formed when seawater seeps down into the earth's crust. (*the process of* . . . *begins*)
- 3. The seawater is heated to over 750° F. As it heats, it expands. (in the process)
- 4. As it rises through the cracks, the hot water dissolves chemicals from the rock. (*in the process of*)
- 5. Some of the minerals harden and form a rim around the vent. (in the process)
- H. Self-Assessment Review: Go back to page 129 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or a small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Describe some of the ways that oceans contribute to the economies of countries around the world.
- 2. One result of global warming will be that polar ice will melt. What impact will this have on our world?
- 3. Describe some of the ways that oceans are used for recreation. Could any of these contribute to a depletion of sea life? How?

UNIT



PHYSIOLOGY

Giving Nature a Hand

In this unit, you will

- read about old and new ways to help people overcome disabilities.
- review identifying time and sequence words.
- increase your understanding of the target academic words for this unit.

READING SKILL Distinguishing Fact from Opinion

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Self-Assessment

Think about how well you know each target word, and check (1) the appropriate column. I have...

TARGET WORDS AWL	never seen the word before	seen the word but am not sure what it means	seen the word and understand what it means	used the word, but am not sure if correctly	used the word confidently in <i>either</i> speaking or writing	used the word confidently in both speaking and writing
🞤 advocate						
alternative						
confine					the energy with hits	
🞤 discriminate						
error						
🞤 evaluate					and the second second	
impose					A STATE OF A STATE	
incentive			Sector States			
objective				-		
proportion						
sum						
suspend						
tense						
voluntary		*			CONTRACT.	www.irt.anguage.com

Oxford 3000™ keywords



Before You Read

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Read these questions. Discuss your answers in a small group.

- 1. How many people do you know who wear glasses? What would their lives be like if they didn't own a pair of glasses?
- 2. What does it mean to "give someone a hand"? How can people give nature a hand to keep their bodies healthy?
- 3. How has science helped people have healthier bodies?

Read

This article highlights some of the ways that humans have managed to overcome the obstacles that nature put in their way.

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Giving Nature a Hand

or most of human history, humans have had to live with the body that nature gave them. They lacked the knowledge to improve eyes that couldn't see clearly, or help ears that couldn't hear.

 Such disabilities were more than an inconvenience for early humans; they were a threat to their existence. A person with impaired vision might not be able to hunt or work with tools, for example. Over time, the **incentive** to survive led people to develop devices
 that would fix these impaired conditions.



EARLY WAYS TO IMPROVE VISION

During his 12th-century travels through China, Marco Polo supposedly saw people using eyeglasses. Soon, eyeglasses came into common use in Italy. The **objective** of the earliest lenses was to help people see things that were close up so they could do tasks like carving or sewing. Soon after, lenses to

¹⁵ help people see distant objects became common. In the 18th century, the two types of lenses were combined in one pair of bifocal lenses so individuals who were both farsighted and nearsighted needed just one pair of eyeglasses.

Early glasses were held in the hand or clipped on the nose, held there 20 by the **tension** of the stiff wire they were made from. Modern framed glasses, **suspended** from the ears by earpieces, were uncommon until the 19th century.

IMPROVING VISION TODAY

Nowadays, other options are available. For example, about 2 percent of the people in the world opt for contact lenses, which lie on the surface of the ²⁵ eye. Fortunately, corneal implants and laser surgery may one day eliminate

the need for corrective devices altogether.

WAYS TO IMPROVE HEARING

No evidence exists of an early device to enhance hearing, but it probably did exist. It was likely a hollow, coneshaped animal horn with the point cut off. Held with the

³⁰ tip by the ear, the horn could be directed toward a voice, for example, so sound waves from the voice could be focused into the ear.

In the 20th century, battery-operated hearing aids became common. The components included a case that

- ³⁵ contained a battery and a sound-amplification device. A wire attached the device to a disc that was inserted into the ear. Today, thanks to electronics, tiny devices that fit behind the ear contain both energy cells and an amplifier. They provide not only better amplification, but also better
- 40 discrimination between various sounds. There is now a surgical alternative to improve hearing without an external device. A medical evaluation can determine whether this alternative—a cochlear implant—might be right for someone with a hearing loss.





An early hearing aid

REPLACING TEETH

- ⁴⁵ Tooth loss was common among our early ancestors due to accidents, infection, and disease. Being toothless affected people's ability to eat and speak clearly. It also made them physically unattractive. The earliest known false teeth, or dentures, date from the 15th century, when rich people were willing to spend a large **sum** of money for uncomfortable false teeth carved from ivory, animal
- 50 teeth, or wood. When the process of making rubber was perfected in 1851, dentists immediately **advocated** its use as a base material for dentures. It was soft, so it would be comfortable. It could be molded to fit individual mouths, and it could securely hold artificial teeth. It was also cheap, making dentures affordable to everyone.
- ⁵⁵ Today, dental implantation is available for people who need to replace one or several teeth. Fixed into the jawbone with a titanium screw, an implanted tooth becomes a permanent replacement rather than a removable dental device.

The exploration of an ancient Mayan burial site in Honduras 60 uncovered the tomb of a young woman, **confined** there for 1,400

- wears. Her jawbone contained three tooth-shaped pieces of seashell embedded into the bone in spots where three of her natural teeth were missing. Was the dental implant a punishment **imposed** on her, or was it a **voluntary** procedure? Were the Mayans the first humans to give nature a hand with
- 65 dental implants?



Reading Comprehension

Mark each statement as *T* (True) or *F* (False) according to the information in Reading 1. Use your dictionary to check the meaning of new words.

- ____ 1. Survival is a strong incentive to fix impairments.
- ____ 2. The objective of the earliest eyeglasses was to help people do close-up tasks.
- _____ 3. Early eyeglasses were secured to the ears by tension or suspended from the nose.
- _____ 4. A large proportion of people are choosing to have corneal implants to eliminate the need for corrective devices.
- ____ 5. A penalty was imposed on people for using animal horns as hearing aids.
- 6. A medical evaluation may determine that a person's hearing would improve with a cochlear implant.
- ____7. Better sound discrimination is possible in modern hearing aids.
- _____8. Dentists advocate the use of corneal implants as an alternative to dentures.

R	Ε	A	D	IN	G	S	K	I	L	L	

Distinguishing Fact from Opinion

LEARN

As you read, it is important to recognize the difference between a *fact* and an *opinion*.

FACT information that can be proven to be right or wrong

OPINION a statement that you cannot prove to be either right or wrong

Opinions often contain value words such as best, worst, beautiful, awful, funniest, or most interesting. Compare these two statements:

It is raining. The weather is awful.

You can prove the first statement by looking out of the window. The second statement is someone's opinion of the weather, so you cannot prove it is right or wrong.

APPLY

A. With a partner, decide whether each statement is a fact or an opinion. Write Fact or Opinion on the line.

- <u>1. Humans cannot live without oxygen to breathe.</u>
- _____2. Good vision is more important than good hearing.
 - _____ 3. Humans have five toes on each foot.
- _____4. People with big ears can hear better.
 - _____5. Long eyelashes are pretty.
 - <u>____</u> 6. Type O is the most common blood type.

- B. Write one fact and one opinion about devices to improve hearing. Write one fact and one opinion about devices to improve vision. Read your sentences aloud in a small group and let the others decide which are facts and which are opinions. Discuss any statements that you disagree about.
- C. Look again at Reading 1. Scan the article to find one sentence that states an opinion. (Hint: It's about dentures.)

REVIEW A SKILL Identifying Time and Sequence Words (See p. 84)

Scan Reading 1. What words are used to identify the present time in the development of each type of device?

Vocabulary Activities STEP I: Word Level

The adjective *objective* is related to facts and opinions. A text or observation is considered objective if it only deals with information that is based on facts, not emotions. The opposite is *subjective*, meaning based on personal opinions.

OBJECTIVE It is raining.

SUBJECTIVE The weather is awful.

Objectivity is the noun form and objectively is the adverb form.

Readers sometimes question the objectivity of a news article.

Newspapers try to report the news objectively, without personal opinion.

The noun *objective* has a different meaning. It is a formal alternative for *goal* or *aim*.

The inventor's objective was to create contact lenses for animals.

CORPUS

A. With a partner, match the medical device on the left with its *objective*. Take turns making sentences describing the connections.

The **objective** of dentures is to substitute for missing teeth.

- ____ 1. dentures
- ____ 2. hearing aids
- ____ 3. eyeglasses
- <u>4</u>. cochlear implants
- ____ 5. contact lenses
- ____ 6. dental implants

- a. to improve declining eyesight
- b. to attain improved hearing
- c. to substitute for missing teeth

- **B.** Imagine that these sentences appeared in a newspaper article. With a partner, cross out the subjective words so that the statements become an objective report of the news.
- 1. At a public meeting yesterday, our popular mayor advocated suspending the ridiculous city tax on sunglasses.
- 2. The audience applauded wildly after his convincing speech.
- 3. The administration made a terrible decision that affected many people when it foolishly imposed this tax.
- 4. Last year the tax generated only the tiny sum of \$63.00.
- 5. After many long and boring comments from angry citizens, the meeting finally ended at 8:00.
- **C.** Read this paragraph about ways of straightening teeth. Use the target vocabulary in the box to complete the sentences. Use the words in parentheses to help you.

advocate	incentive	proportion
impose	confined	tense
alternative	objective	voluntarily

Nowadays, many adults. the discomfort of dental braces on (1. force) themselves It will be the second time around for a large (2. willingly) of adults who are considering braces. One day they notice (3. part) that teeth which were perfectly aligned in childhood have shifted and may even overlap. Dentists _ braces for them. Their (4, recommend) (5. goal) is to prevent future health problems. However, the patients'. is (6. motive) usually to improve their appearance. Standard braces are made of steel, but a for adults are clear plastic bands. The first few days popular -(7. choice) with new braces are the worst. The pain in their mouth makes patients feel _. Often the pain is not _ to the mouth. (8. stressed) (9. limited) Patients may temporarily experience headaches and earaches, too. However, when the braces are ultimately removed, most adults say that the discomfort was worth it. Tension refers to how tightly something is stretched. It can describe the forces acting on objects or the emotional forces acting on people.

The dentist increases the **tension** in my braces a little more each week. Don's been so **tense** since he lost his job. He's been having **tension** headaches. The atmosphere was **tense** as the doctor removed the bandages from the patient's eyes.

In grammar, tense refers to the time of a verb.

The past tense form of "keep" is "kept."

150 UNIT 10

- **D.** With a partner, think of things that might make these people feel tense. What is the cause of the tension?
- 1. someone getting on an airplane 4. someone going to a job interview
- the hostess of a large party
 someone who cannot hear
- 6. a new parent

5. a teacher on her first day of school

- **E.** An *incentive* is something that encourages a person to do something. With a partner, match the incentive with the action that will make it possible. Take turns making sentences with the matches.
- <u>___</u> 1. having a nice smile
- a. getting dentures

Having a nice smile is an **Incentive** for getting braces.

- ____ 2. being able to see clearly
- _____ 3. being able to hear conversations c. getting braces

b. exercising every day

- ____ 4. being able to chew food
- d. giving up smoking
- ____ 5. having big muscles
- <u>6. improving your health</u>
- e. wearing a hearing aidf. wearing glasses

Vocabulary Activities STEP II: Sentence Level

The word *sum* has several uses, all related to the idea of a total amount of something. In math, for example, the *sum* is the result you get when you add numbers together.

The sum of 6 + 2 + 3 is 11.

It is also the total value of a group of things.

A team is only as good as the **sum** of its players.

It can refer to an amount of money.

Most insurance pays you a large sum when disaster strikes.

The phrase sum up means to state the main points of a text or conversation.

The doctor summed up the situation in three words: "You need glasses."

A summation is a formal review of the main points of something, written or spoken.

The jury listened carefully to the lawyer's three-hour summation.



F. Look again at Reading 1. Check (✓) the statement that accurately sums up each of these paragraphs.

PARAGRAPH 2

- ____1. Some people cannot see things at a distance.
- ____ 2. Certain lenses are for farsighted people.
- _____ 3. The history of eyeglasses began many centuries ago. PARAGRAPH 3
- ____1. Modern ways to correct vision are different from earlier ways.
- ____ 2. About 2 percent of people in the world wear contact lenses.
- _____ 3. After the 19th century, glasses had earpieces to hold them on.

Now, write statements that sum up these paragraphs. Use in summation or to sum up in each statement.

- 1. PARAGRAPH 4: To sum up, effective hearing devices didn't become available until the 20th century.
- 2. PARAGRAPH 5: _____
- 3. PARAGRAPH 6:____

To *impose* something on a person is to use authority to require them to obey. *Imposition* is the noun form.

The city will impose a fine on residents who park in the streets overnight.

Unfavorable circumstances can impose problems on people.

Poverty imposes many hardships on people.

If someone *imposes on* you, they interrupt your routine and expect a favor from you.

I don't want to impose on you, but may I use your computer?

Someone who is *imposing* is impressive in appearance or behavior and seems powerful.

Standing before the crowd in full uniform, the general was an imposing figure.

CORPUS

G. With a partner, think of limits that might be *imposed on* people in each category. Then choose one category and write in your notebook a short paragraph that describes three limits.

Poverty	Blindness	Autism
Poverty imposes many limits on people. One is		

The word *discriminate* has several different meanings related to the idea of differentiation—or noticing differences between things.

The law should not discriminate between famous and ordinary people.

Mrs. Clifford is very discriminating. She only serves the best quality foods.

To *discriminate* one thing from another means to be able to see, hear, smell, touch, or feel the difference.

I can't **discriminate** one perfume from another. They all smell the same to me. He has trouble with color **discrimination** and can't tell lime green from olive green.

To *discriminate* <u>against</u> a person or a group of people is to treat them unfairly.

In past decades, employers often discriminated against women.

Racial discrimination is still common in many places.

It is often difficult to tell which meaning of *discriminate* or *discrimination* is being used. Here are some helpful hints.

When discriminate or discrimination means "to recognize differences,"

- it is nearly always used with between or with from.
- two or more similar things are mentioned.

When discriminate or discrimination means "to treat people unfairly,"

- it is nearly always used with against.
- a particular person or a group of people is mentioned.
- a particular type of discrimination is named: for example, age discrimination.
- H. Rewrite these sentences in your notebook to include a form of discriminate. Read your sentences in a small group. Did you convey the correct meaning in each of your sentences?
 - 1. Society is unfair to people who are fat.
 - 2. People who are colorblind usually cannot tell red from green.
 - 3. It is against the law for employers to treat someone unfairly because of his race.
 - 4. Immigrants often face unfair treatment in their new countries.
 - Movie actors wear contact lenses because studios won't hire actors who wear glasses.
 - 6. Lemons and limes taste the same to me.

مرجع زبان ايرانيان

Before You Read

💿 📀 🔍 www.irt.anguage.com

Read these questions. Discuss your answers in a small group.

- 1. Eyeglasses, hearing aids, and false teeth are common devices that assist people who have physical limitations. What other devices do you know of that help people's bodies function?
- 2. Have you ever seen people with artificial arms or legs? What could they do?
- 3. How do you think artificial limbs will change in the future?

Read

The title of this article refers to a 1970s science fiction television series, *The Six Million Dollar Man.*

BIONIC PEOPLE

S ome 40 years ago, a bionic man was the hero in a science fiction television series called *The Six Million Dollar Man.* In the series, an astronaut has a terrible accident. His

- ⁵ damaged arms and legs are replaced with hightech artificial ones costing six million dollars. The new arms and legs made him "bionic"—part human and part machine. More recently, a real bionic man has been created, and for a **sum** nearly
- ¹⁰ as great as the original one. Jesse Sullivan can't run 60 miles per hour, but he does have a bionic arm to replace one he lost in an accident. This new arm is not science fiction. It is the world's first thought-controlled artificial arm.



WWWW States

The Six Million Dollar Man

JESSE'S STORY

¹⁵ In 2001, Jesse Sullivan was 54 years old and working as a lineman for an electrical power company. Somehow, he made an **error** and contacted with a live wire on the ground that gave him a 7,200-volt shock of electricity. His arms were destroyed.

After recovering from the accident, Jesse got a set of artificial ²⁰ arms. He controlled them by moving his back muscles and pressing tabs with his neck. He learned quickly and did well, so his doctors at the Rehabilitation Institute of Chicago **advocated** using him as a research subject. He would continue to use a conventional artificial right arm, but his new left arm would be a 12-pound Neuro-²⁵ Controlled Bionic Arm. Instead of using his body to move it, he would use his brain.

Jesse underwent surgery to prepare for this. The **objective** was to isolate the healthy nerves that once controlled movement in Jesse's left arm. These nerves were reattached to muscles in

³⁰ Jesse's chest. Eventually the re-routed nerves would grow into the chest muscles. Finally, electrodes were attached to Jesse's chest and connected to his artificial arm. Now, when Jesse **tenses** these chest muscles, it creates a tiny electrical signal.

The signal activates a computer in the left

arm that does what Jesse's brain tells it to do. The movement is as **voluntary** and as immediate as it would be in a real arm.

The brain not only gives signals to the missing arm, it receives them as well. When

- ⁴⁰ a doctor touches Jesse's chest in various spots, it feels to Jesse as if the doctor is touching his thumb, for instance, even though his hand and arm are missing. Eventually he will be able to feel what the
- ⁴⁵ bionic hand is touching and to **discriminate** between sensations of heat and cold.



Jesse Sullivan

This bionic arm is **suspended** from a plastic

framework that fits around Jesse's upper body. It has six motors and consists of parts from around the world. The hand was made ⁵⁰ in China, the wrist in Germany, and the shoulder in Scotland. The six motors move the bionic arm's shoulder, elbow, and hand as a unit. Jesse uses his arm to help him put on socks, shave, eat, and do other personal and household chores just by thinking about them.

CLAUDIA'S STORY

- In 2004, Claudia Mitchell became the second person to use a thought-controlled artificial arm. That year the 24-year-old woman lost her left arm in a motorcycle accident. While she was recovering from her accident, she worried about her future. She was very brave. She did not want the accident to **impose**
- restrictions on her or confine her to her house. She saw no alternatives until she read a magazine article about Jesse Sullivan and his bionic arm. The article gave her the incentive to try to get her own bionic arm. She said to herself, "I've got to have one of those."
- 65 Her doctors evaluated her and agreed to make her into a bionic woman. After surgery, Claudia was fitted with a 10-pound

artificial arm that she controls with her brain. She mastered the use of her new arm and entered college.

- Today a disproportionate amount of research into brain-controlled artificial arms is focused on implanting sensors in the brain to link the brain to the arm. Dr. Todd Kuiken, who heads the neural
- P75 engineering program at the Chicago
 Institute, rejects this approach. He says of the technique used with Jesse and
 Claudia, "The exciting thing about this technique is we are not implanting anything
 B00 into (the) body."



Reading Comprehension

Mark each statement as T (True) or F (False) according to the information in Reading 2. Use your dictionary to check the meaning of new words.

- ____1. Jesse's doctors made an error and charged him a sum of six million dollars.
- 2. The objective of Jesse's surgery was to isolate the healthy nerves that once controlled the left arm and reattach them to chest muscles.
- _____ 3. When Jesse tenses his chest muscles, he activates a computer.
- _____4. Someday Jesse's hand will be able to discriminate between heat and cold.
- ____ 5. Claudia worried that her accident might impose restrictions on her life or confine her to her house.
- _____ 6. She saw an alternative when she read about Jesse in a magazine article.
- _____7. The article gave Claudia the incentive to meet Jesse Sullivan.
- ____ 8. A disproportionate amount of research is focused on bionic arms.

READING SKILL

Distinguishing Fact from Opinion

APPLY

A. Read these statements. Decide whether each one is a fact or an opinion. Write Fact or Opinion on the line. Compare answers with a partner.

- 1. The Six Million Dollar Man was a science-fiction TV show.
- 2. Bionic is a confusing term for people with artificial limbs.
- _3. It must be strange to have someone touch your chest and feel it in your hand.
- 4. Claudia is very lucky that she has a bionic arm.
- _ 5. Claudia's bionic arm is very heavy.
- B. Look again at Reading 2. Scan the article to find one sentence that states an opinion. (Hint: It's about Claudia.)
- C. In your notebook, write two facts and two opinions about the people in Reading 2. Read your sentences aloud in a small group and let the others decide which are facts and which are opinions. Discuss any statements that you disagree about.

Vocabulary Activities STEP I: Word Level

- A. With a partner, list some alternatives for these situations.
 - 1. Your uncle was in a car accident and both of his legs were injured. Suggest some alternate ways for him to travel to his job.
- 2. Your grandmother's eyesight is very poor. She likes stories about famous people, but she can't see well enough to read. What alternatives can you suggest so she can still enjoy these stories?
- **B.** Confine can mean to keep someone or something in a particular place. It can also refer to controlling or setting the limits of something. With a partner, match the type of business in the first column to what it confined (center column) and the type of limit (last column). In your notebook, take turns making sentences.

This restaurant confined its menu to Mexican food.

Type of Business	What It Confined	Type of Limit
1. a restaurant	its broadcasting	girls under 18
2. a library	its children's books	Mexican food
3. a private school	its repairs	900 words
4. a clothing store	its menu	items under \$20
5. an auto repair shop	its articles	Japanese cars
6. a radio station	its student body	a cozy corner
7. a magazine	merchandise	ten hours a day

Voluntary describes an action that is done willingly, without being required to do it.

The adverb form is voluntarily.

Involvement in the study is strictly **voluntary**. You don't have to do it to graduate. The participants **voluntarily** donated their time to help the researchers.

The noun and the verb have the same form: volunteer.

Volunteers at the local hospital play games with the sick children.

Amy always volunteers to help out when they are shorthanded.

- **C.** With a partner, decide which of these actions are voluntary and which are required.
- 1. giving your seat on a bus to an old person
- 2. straightening crooked teeth with braces
- 3. wearing glasses to improve your vision
- 4. getting a passport to travel overseas
- 5. using a bed net to prevent malaria
- 6. getting a license to drive a car
- 7. paying for groceries at a market
- 8. visiting a sick patient in a hospital

An *advocate* is a person who speaks or writes publicly in favor of a particular position or cause. *Advocacy* is the noun form of this action. The verb is also *advocate*.

My uncle is an advocate for disabled people. He advocates for them.

His advocacy resulted in new laws to help the disabled.

CORPUS

CORPUS

D. Imagine that the city wants to build a new hospital. They asked doctors at the current hospital to volunteer ideas for the new hospital. Each doctor is an advocate for his or her own specialty. With a partner, match the doctor with what he or she might advocate. Take turns making sentences with the information. Check your dictionary for the meaning of new words.

The surgeon is an advocate of doubling the number of operating rooms.

The surgeon advocates doubling the number of operating rooms.

- ____ 1. pediatrician
- <u>2. pharmacist</u>
- ____ 3. obstetrician
- ____ 4. nutritionist
- a 5. surgeon
- ____ 6. radiologist

- a. doubling the number of operating rooms
- b. installing reclining chairs for new mothers
- c. building a modern kitchen for the cafeteria
- d. building a playroom for the sick children
- e. purchasing new X-ray machines
- f. adding computers to keep track of medicines

Vocabulary Activities STEP II: Sentence Level

To *suspend* <u>something</u> means to hang something, either permanently or temporarily.

Jesse's new arm was suspended from his shoulder by a plastic frame.

To suspend an activity is to stop it temporarily.

The lab will suspend research on the vaccine until a new director is hired.

To suspend <u>a person</u> is to dismiss them from a job, school, project, etc. temporarily, usually as a punishment. Suspension is the noun form.

Hannah was **suspended** from school for a week for bad behavior. During her **suspension** she wasn't allowed to watch TV or go online.

CORPUS

- E. Rewrite these sentences using a form of *suspend*. Compare your sentences with a partner.
 - 1. The biology lab technician was dismissed for a week for being careless.
 - 2. He hung hot lamps too close to the dishes of bacteria we were studying.
 - 3. We had to stop our experiment until we could grow new bacteria.
 - 4. The technician was not paid during the time he was not working.
 - 5. When he returns, we'll show him the proper way to hang the lamps.

Word Form Chart				
Noun	Verb	Adjective	Adverb	
proportion	(dis)proportional	(dis)proportionally		
		(dis)proportionate	(dis)proportionately	

A *proportion* is concerned with the relationship among the parts that make up a whole. Like a ratio, it can compare one part to another part in terms of number. It can also compare parts in terms of importance, size, degree, or other factors.

The largest proportion of undergraduates is made up of women.

The two adjective forms are interchangeable, as are the two adverb forms.

An enormous TV took up a disproportionally large area of the room.

Each roommate had a proportionate amount of space in the closet.

When two parts are *in proportion*, this means they are of the correct sizes relative to each other. For instance, in an accurate drawing of a person, the ears will be larger than the eyes—but they are supposed to be. *Out of proportion* is the opposite.

The artist has drawn the eyes and ears in **proportion**. But look how big the mouth is. It's **out of proportion** with the rest of the head.



- **F.** The information in this activity has been taken from the first nine units of this book. In your notebook, restate the information using a form of *proportion*. Compare only their relative size or importance (no statistics necessary). Be prepared to read aloud and discuss your sentences in a small group.
 - 1. The oceans of the world occupy over 70 percent of the earth's surface.

The oceans of the world occupy a large proportion of the earth's surface.

- 2. Food from the sea provides between 5 percent and 10 percent of the total world food supply.
- 3. Of the earth's seven billion people, over one billion rely on fish as a primary source of protein.
- 4. Ambition seems to coincide most often with middle-class status.
- 5. Celebrities as a group are more narcissistic than other people.
- 6. Kids with autism are predominantly male, with boys outnumbering girls by a ratio of 4 to 1.
- 7. About 90 percent of the world's malaria deaths occur in sub-Saharan Africa.
- 8. As the rainforest disappears, so will the native people.
- 9. Hundreds of new gas stations were built along the highways, complemented by new fast-food restaurants.
- 10. Fast-Food Franchises in 2008: McDonald's 30,000; Burger King 11,550.
- **G.** Self-Assessment Review: Go back to page 145 and reassess your knowledge of the target vocabulary. How has your understanding of the words changed? What words do you feel most comfortable with now?

Writing and Discussion Topics

With a partner or a small group, share ideas about the following topics. Then have each person write a paragraph about one of the topics.

- 1. Some people consider eyeglasses one of the most important inventions in human history. Do you agree or disagree? Why?
- 2. What devices do you know of that assist people who are blind? What devices do you know of that assist people who are deaf?
- 3. It is estimated that Claudia's bionic arm cost \$4 million. Do you think this is a good investment for research dollars? Why or why not?

The Academic Word List

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Words targeted in Level 1 are bold

Word	Sublist	Location
abandon	8	L1, U7
abstract	6	L3, U5
academy	5	L3, U1
& access	4	L1, U2
accommodate	9	L2, U7
Paccompany	8	L1, U2
accumulate	8	L2, U4
accurate	6	L4, U6; L0, U2
achieve 🖌	2	L4, U1; L0, U9
acknowledge	6	L1, U7
acquire	2	L1, U4
adapt 🕹	7	L4, U7
adequate	4	L2, U4
adjacent	10	L2, U3
🖨 adjust	5	L4, U3
administrate	2	L1, U3
🖍 adult	7	L3, U6
advocate	7	L1, U10
affect 🕹	2	L2, U6; L0, U10
aggregate	6	L1, U9
aid 🕹	7	L2, U7
albeit	10	L1, U7
allocate	6	L2, U6
alter 🖌	5	L1, U1
alternative 🖉	3	L1, U10
nambiguous 🦨	8	L1, U4
amend	5	L2, U9
analogy	9	L1, U4
analyze	1	L2, U3; L0, U01
annual 🖌	4	L1, U9
anticipate 🗸	9	L2, U3
apparent	4	L2, U9
append	8	L2, U10
appreciate 🧳	8	L3, U5
approach 🧳	1	L3, U1; L0, U10
ne appropriate	2	L1, U8
approximate 🦨	4	L3, U4
arbitrary	8	L2, U8
area	1	L4, U1; L0, U5
aspect 🖌	2	L3, U4
assemble	10	L3, U10
assess	1	L1, U8
assign	6	L2, U9
assist	2	L2, U5; L0, U4
assume	1	L2, U1; L0, U4
assure	9	L3, U4
attach	6	L3, U7

Word	Sublist
attain	9
🖍 attitude	4
attribute	4
author	6
🖍 authority	1
automate	8
🖍 available	1
aware	5
🖍 behalf	9
🖍 benefit	1
bias	8
bond	6
🖍 brief	6
bulk	9
🔏 capable	6
apacity 🖍	5
category	2
cease	9
Challenge	5
🕹 channel	7
& chapter	2
Chart	8
Chemical	7
circumstance	3
cite	6
civil	4
clarify	8
classic	7
clause	5
✔ code	4
coherent	9
coincide	9
collapse	10
Colleague	10
commence	9
comment	3
Commission	2
commodity	4 8
communicate	
<pre>community</pre>	2
compatible	9
compensate	3
compile	10
complement	8
promont	

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Location	Word	Sublist	Location
L1, U5	Complex	2	L4, U2; L0, U1
L4, U6	component	3	L4, U3
L3, U10	compound	5	L4, U6
L2, U4	comprehensive	e 7	L2, U7
L1, U6	comprise	7	L4, U9
L3, U6; L0, U7	compute	2	L4, U8
L3, U5; L0, U6	conceive	10	L4, U10
L1, U5	a concentrate	4	L3, U8
	a concept	1	L3, U1; L0, U10
L3, U9	a conclude	2	L1, U6
L4, U2; L0, U9	concurrent	9	L4, U5
L4, U8	a conduct	2	L1, U9
L4, U3	confer	4	L4, U4
L3, U6	confine	9	L1, U10
L4, U9	🖍 confirm	7	L4, U10
to an internet	P conflict	5	L1, U2
L1, U8	conform	8	L4, U7
L4, U9	consent	3	L4, U7
L4, U5	consequent	2	L2, U3; L0, U4
L4, U10	🖍 considerable	3	L3, U8
L3, U8	a consist	1	L4, U2, U9; L0, U7
L1, U3	a constant	3	L4, U8
L3, U7	constitute	1	L1, U4
L3, U10	constrain	3	L1, U8
L2, U10	construct	2	L3, U1; L0, U5
L2, U10; L0, U8	a consult	5	L1, U6
L4, U10	consume	2	L2, U2; L0, U10
L1, U4	acontact	5	L2, U10
L4, U8	P contemporary	8	L1, U7
L3, U9	acontext 🕹	1	L1, U4
L2, U8	arr contract	1	L3, U9
L4, U9	contradict	8	L2, U2
L2, U5	contrary	7	L1, U6
L1, U5	a contrast	4	L1, U7
L4, U10	🖍 contribute	3	L1, U9
L1, U5	controversy	9	L2, U3
L3, U9	convene	3	L1, U4
L3, U3	converse	9	L2, U8
L3, U9	2 convert	7	L2, U2
L2, U6; L0, U8	aconvince a convince	10	L1, U3
L4, U6	cooperate	6	L1, U2
L3, U2	coordinate	3	L2, U6
L2, U7; L0, U4	core	3	L2, U5
L1, U9	corporate	3	L2, U2
L3, U4	correspond	3	L3, U9
L2, U6	couple	7	L3, U1
L1, U7	📌 create	1	L2, U1; L0, U1

Oxford 3000™ words

Word	Sublist	Location
a credit	2	L3, U6
ariteria 🥐	3	L3, U3
Crucial	8	L3, U10
culture	2	L4, U10; L0, U6
currency	8	L3, U9
cycle	4	L4, U5
🞤 data	1	L2, U3; L0, U10
debate	4	L2, U4
A decade	7	L1, U7
A decline	5	L1, U2
deduce	3	L4, U7
A define	1	L3, U2; L0, U4
definite	7	L3, U4
& demonstrate	3	L1, U5
denote	8	L4, U6
& deny	7	L4, U10
& depress	10	L2, U4
& derive	1	L4, U10; L0, U10
A design	2	L1, U1; L0, U5
& despite	4	L3, U2
detect	8	L1, U6
deviate	8	L2, U8
Aevice	9	L2, U3
& devote	9	L3, U9
differentiate	7	L1, U4
dimension	4	L4, U5
diminish	9	L4, U4
discrete	5	L2, U6
discriminate	6	L1, U10
displace	• 8	L2, U7
display	6	L3, U5; L0, U8
dispose	7	L4, U6
distinct	2	L3, U7
distort	9	L3, U6
ndistribute 🖉	1	L4, U8
diverse	6	L2, U8
Adocument	3	L4, U9
domain	6	L2, U8
adomestic 🖉	4	L1, U3
Adominate	3	L1, U5
Araft 🖌	5	L3, U6
Arama	8	L3, U5
duration	9	L4, U1
dynamic	7	L1, U5
Peconomy	1	L1, U7
edit	6	L4, U8
Pelement	2	L4, U1
Peliminate	7	L2, U9
Pemerge	4	L2, U1

Word	Sublist	Location
nemphasis 🥜	3	L2, U9
empirical	7	L3, U4
nable	5	L3, U10
ancounter	10	L3, U5
heregy 🖉	5	L2, U5
enforce	5	L4, U7
enhance	6	L3, U1
normous	10	L3, U8
Pensure	3	L2, U5; L0, U6
entity	5	L4, U5
Penvironment	1	L2, U1; L3, U8;
		L0, U3
equate	2	L2, U2
equip	7	L2, U3
n equivalent	5	L3, U10
erode	9	L1, U9
error	4	L1, U10
establish 🖉	1	L1, U6
estate	6	L4, U6
Pestimate	1	L2, U10
ethic	9	L2, U9
Pethnic .	4	L2, U1; L3, U3
evaluate	2	L1, U10
eventual	8	L4, U3
evident	1	L4, U2; L0, U8
evolve	5	L2, U7
exceed	6	L4, U1
exclude	3	L4, U7
exhibit	8	L2, U5
expand	5	L1, U7
<pre>expert</pre>	6 6	L3, U8
explicit	8	L1, U3
exploit		L1, U5
export expose	1	L1, U3
external	5 5	L3, U5 L2, U10
extract		
extract	7	L3, U2
facilitate	5	L4, U1
hactor	1	L3, U8; L0, U4
📌 feature	2	L4, U1; L0, U2
📌 federal	6	L2, U3
all fee	6	L1, U1
📌 file	7	L4, U6
al final	2	L4, U3
finance	1	L2, U2
finite	7	L1, U9
flexible	6	L3, U9
fluctuate	8	L2, U7
📌 focus	2	L3, U8
format	9	L4, U8

Word	Sublist	Location
📌 formula	1	L4, U8
forthcoming	10	L4, U3
P found	9	L4, U8
Proundation	7	L4, U4
framework	3	L1, U1
function	1	L3, U1
📌 fund	3	L3, U3
📌 fundamental	5	L4, U4
furthermore	6	L4, U9
gender	6	L2, U8
₽ generate	5	L1, U5
generation	5	L1, U7
globe	7	L3, U2
	4	L3, U3
grade	7	L1, U7
grant	4	L2, U9
guarantee	7	L2, U8
guideline	8	L3, U3
hence	4	L3, U5
hierarchy	7	L3, U4
highlight	8	L4, U3
hypothesis	4	L4, U7
identical	7	L4, U5
✔ identify	1	L4, U2; L0, U7
ideology	7	L4, U2, L0, U7 L4, U6
ignorance	6	L4, 00 L2, U9
➢ illustrate	3	L2, U9 L4, U9
2 image	5	L3, U5
immigrate	3	L2, U1
impact	2	L1, U9
implement	4	L1, U2
implicate	4	L4, U7
implicit	8	L1, U3
imply	3	L4, U7
impose	4	L1, U10
incentive	6	L1, U10
incidence	6	L3, U10
incline	10	L1, U7
lincome	1	L1, U3
incorporate	6	L4, U4
hindex 🖉	6	L1, U4
indicate	1	L2, U4; L0, U10
💊 individual	1	L1, U1
induce	8	L3, U7
P inevitable	8	L2, U8
infer	7	L1, U8
infrastructure	8	L4, U6
inherent	9	L1, U1

Oxford 3000™ words

Word	Sublist	Location	Word	Sublist	Location	Word	Sublist	Location
inhibit	6	L1, U5	najor	1	L3, U2; L0, U5	overseas	6	L1, U1
🗞 initial	3	L3, U7; L0, U8	manipulate	8	L4, U4			
initiate	6	L2, U10	manual	9	L3, U10	Ppanel 🖌	10	L1, U6
🔑 injure	2	L1, U1	margin	5	L4, U3	paradigm	7	L2, U6
innovate	7	L1, U3	mature	9	L1, U8	paragraph	8	L3, U6
input	6	L3, U6	maximize	3	L2, U8	parallel	4	L3, U9
insert	7	L2, U9	mechanism	4	L3, U9	parameter	4	L4, U5
insight	9	L3, U7	hedia 🖉	7	L1, U5	P participate	2	L1, U8
inspect	8	L3, U3	mediate	9	L4, U2	P partner	3	L3, U1
instance	3	L1, U6	A medical	5	L1, U2	passive	9	L2, U8
institute	2	L2, U8	medium	9	L2, U2	perceive	2	L2, U9
instruct	6	L4, U2	P mental	5	L2, U6	& percent	1	L2, U10
integral	9	L1, U4	method	1	L4, U9	Pperiod	1	L2, U6
integrate	4	L2, U7	migrate	6	L3, U2	persist	10	L2, U4
integrity	10	L3, U7	2 military	9	L1, U4	perspective	5	L3, U2
intelligence	6	L3, U8	minimal	9	L2, U10	<pre>peropective phase</pre>	4	L1, U8
Pintense	8	L1, U2	minimize	8	L1, U1	phenomenon	7	L2, U5
interact	3	L1, U8	2 minimum	6	L4, U5	philosophy	3	L2, U5
intermediate	9	L2, U7	ministry	6	L1, U2	philosophy	3	L4, U3 L4, U4; L0, U
internal	4	L3, U7	minor	3	L3, U7	physical	8	L4, U4, L0, U L4, U5
<pre>interpret</pre>	1	L3, U3	mode	7				
interpret	6	L2, U5			L4, U7	policy	1	L3, U3
intervene	7	L2, US L2, U8	modify	5	L2, U3	portion	9	L3, U9
intrinsic	10		monitor	5	L2, U3	& pose	10	L3, U1
CONTRACTOR AND		L4, U4	motive	6	L1, U6	positive	2	L1, U5
<pre>invest invest</pre>	2	L2, U4	mutual	9	L3, U3	potential	2	L4, U8; L0, U
investigate	4	L4, U8				practitioner	8	L1, U2
invoke	10	L1, U3	negate	3	L4, U2	precede	6	L2, U4
involve	1	L2, U3	network	5	L3, U2	precise	5	L3, U10
isolate	7	L3, U4	neutral	6	L2, U10	predict	4	L2, U1
issue	1	L4, U2; L0, U8	nevertheless	6	L4, U10	predominant	8	L1, U8
🖍 item	2	L3, U10; L0, U7	nonetheless	10	L4, U7	preliminary	9	L4, U1
			norm	9	L4, U6	presume	6	L2, U2
📌 job	4	L1, U1	normal	2	L3, U8; L4, U2	previous	2	L2, U5; L0, U
journal	2	L2, U6	notion	5	L4, U9	ntimary 🕹	2	L1, U1
🖍 justify	3	L2, U3	notwithstandin	g 10	L2, U1	prime	5	L4, U4
			nuclear	8	L2, U7	la principal	4	L4, U5
Plabel	4	L2, U2				principle	1	L3, U9; L0, U
habor 🖉	1	L1, U2	Pobjective	5	L1, U10	Prior	4	L3, U6
🎤 layer	3	L3, U4	abtain	2	L3, U6; L0, U10	🖍 priority	7	L1, U2
Plecture	6	L4, U2	abvious 🕹	4	L3, U7	proceed	1	L4, U9; L0, U
📌 legal	1	L2, U3	С ссиру	4	L1, U9	process	1	L1, U9
legislate	1	L3, U3	2 occur	1	L1, U2	professional	4	L1, U5
levy	10	L2, U9	so odd	10	L1, U8	prohibit	7	L3, U10
Pliberal	5	L2, U1	offset	8	L4, U8	project	4	L4, U4,U9
Plicense	5	L3, U9	ongoing	10	L3, U3	promote	4	L2, U6
likewise	10	L4, U5	Poption	4	L4, U7	proportion	3	L1, U10
Plink .	3	L1, U8; L0, U1	orient	5	L2, U5	prospect	8	L2, U6
Plocate	3	L2, U1; L0, U1	outcome	3	L3, U4	protocol	9	L2, U4
Plogic	5	L1, U6	Poutput	4	L1, U7	psychology	5	L2, 04 L4, U2
•	•		overall	4	L2, U6	publication	5	L4, 02 L3, U1
					LZ, UU		(L3, U1

Oxford 3000™ words

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Word	Sublist	Location
purchase	2	L2, U9; L0, U7
pursue	5	L3, U8
qualitative	9	L3, U9
auote Qualitative	9	L3, U9 L4, U10
< quote	1	14, 010
radical	8	L3, U4
random	8	L2, U7
range	2	L3, U1
🖍 ratio	5	L1, U8
rational	6	L3, U3
R react	3	L2, U6; L0, U3
recover	6	L3, U4
refine	9	L4, U4
regime	4	L2, U10
region	2	L3, U1
hegister	3	L2, U2
regulate	2	L3, U6; L0, U9
reinforce	8	L2, U5
reject	5	L1, U7
Relax	9	L1, U8
release	7	L4, U1
relevant	2	L4, U8
reluctance	10	L2, U4
rely	3	L3, U2; L0, U6
remove	3	L3, U2; L0, U8
require	1	L4, U2; L0, U9
research	1	L4, U2
reside	2	L1, U2
resolve	4	L3, U4
resource	2	L3, U8
respond	1	L4, U7
restore	8	L3, U5
restrain	9	L2, U7
restrict	2	L2, U9; L0, U6
retain	4	L4, U3
reveal	6	L3, U8
revenue	5	L2, U2
reverse	7	L2, U7
revise	8	L3, U6
revolution	9	L1, U1
rigid	9 1	L2, U7
role route		L1, U5
< route	9	L2, U5
scenario	9	L3, U7
schedule	8	L4, U9
scheme	3	L4, U3
scope	6	L4, U8
section	1	L2, U5
sector	1	L1, U3

Word	Sublist	Location
secure &	2	L4, U6; L0
leek 🕹	2	L4, U3; L0
select	2	L3, U1
sequence	3	L3, U5
series	4	L3, U5
le sex	3	L1, U3
🗞 shift	3	L4, U9; L0
heta significant	1	L3, U10;
🖍 similar	1	L2, U1; L0
simulate	7	L3, U1
🔗 site	2	L1, U6
so-called	10	L2, U8
sole	7	L4, U1
🗞 somewhat	7	L1, U4
source	1	L3, U2; L
🖍 specific	1	L1, U6
specify	3	L4, U6
sphere	9	L3, U7
📌 stable	5	L4, U5
statistic	4	L4, U7
📌 status	4	L3, U2
straightforwa	rd 10	L3, U4
strategy	2	L2, U5; L
🖍 stress	4	L4, U4
structure	1	L2, U1; L0
🖍 style	5	L1, U4
submit	7	L2, U9
subordinate	9	L4, U3
subsequent	4	L1, U1
subsidy	6	L2, U2
🖧 substitute	5	L1, U1
successor	7	L2, U9
sufficient	3	L2, U10;
🖍 sum	4	L1, U10
summary	4	L2, U10
supplement	9	L4, U10
survey	2	L1, U3
survive	7	L3, U2
suspend	9	L1, U10
sustain	5	L2, U4
🖍 symbol	5	L2, U2
🖍 tape	6	L1, U6
📌 target	5	L3, U10
📌 task	3	L1, U8
📌 team	9	L2, U6
http://www.cal	3	L1, U6
technique	3	L2, U1; L
technology	3	L3, U8; L
temporary	9	L1, U9
tense	8	L1, U10

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Location	
L4, U6; L0, U8	
L4, U3; L0, U4	
L3, U1	
L3, U5	
L3, U5	
L1, U3	
L4, U9; L0, U2	
L3, U10; L0, U6	
L2, U1; L0, U2	
L3, U1	
L1, U6	
L2, U8	
L4, U1	
L1, U4	
L3, U2; L0, U10	
L1, U6	
L4, U6	
L3, U7	
L4, U5 L4, U7	
L4, U7 L3, U2	
L3, U2 L3, U4	
L2, U5; L0, U9	
L4, U4	
L2, U1; L0, U5	
L1, U4	
L2, U9	
L4, U3	
L1, U1	
L2, U2	
L1, U1	
L2, U9	
L2, U10; L0, U4	
L1, U10	
L2, U10	
L4, U10	
L1, U3	
L3, U2	
L1, U10	
L2, U4	
L2, U2	
11.116	
L1, U6 L3, U10	
L3, 010 L1, U8	
L2, U6	
L1, U6	
L2, U1; L0, U6	
L3, U8; L0, U7	
11 110	

Word	Sublist	Location
terminate	8	L1, U9
hext	2	L2, U4
a theme	8	L2, U2
theory	1	L4, U4; L0, U9
thereby	8	L4, U3
thesis	7	L4. U7
arr topic	7	L3, U3
here trace	6	L1, U9
tradition	2	L3, U6; L0, U4
transfer	2	L4, U1; L0, U3
transform	6	L2, U7
transit	5	L3, U5
transmit	7	L4, U4
transport	6	L4, U10; L0, U9
trend	5	L4, U6
trigger	9	L3, U7
🞤 ultimate	7	L1, U9
undergo	10	L4, U1
underlie	6	L4, U6
undertake	4	L2, U3
niform	8	L3, U1
unify	9	L4, U5
🖍 unique	7	L2, U1; L0, U7
utilize	6	L3, U8
🖍 valid	3	L4, U10
vary	1	L3, U10; L0, U2
vehicle	8	L4, U3
version	5	L3, U5
🖍 via	8	L1, U4
violate	9	L3, U6
virtual	8	L2, U10
🖍 visible	7	L3, U5
vision	9	L4, U3
visual	8	L3, U7
🖍 volume	3	L2, U4
voluntary	7	L1, U10
welfare	5	L4, U1
whereas	5	L4, U2
whereby	10	L1, U4
widespread	8	L4, U10

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About the Series Director



Cheryl Boyd Zimmerman is a professor of TESOL at California State University, Fullerton. She specializes in second-language vocabulary acquisition, an area in which she is widely

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