

# ***Grammar for Great Writing, Book B, 1<sup>st</sup> Edition***

## **UNIT 1**

### **What Do You Know?, page 3**

<sup>1</sup>Many students who are in their first year of university study ~~has~~ **have** difficulty choosing majors. (The verb must agree with the plural subject, *students*.)

<sup>4</sup>Because academic advisors are familiar with all the majors offered at the university, they ~~are providing~~ **provide** helpful information to guide students toward a specific field of study. (Use the simple present form of the verb to make a general statement.)

### **ACTIVITY 1, page 5**

1. is becoming
2. wear
3. is receiving
4. have not traveled
5. preview
6. is not helping
7. have always wanted
8. is

### **ACTIVITY 2, page 7**

1. uses
2. have risen
3. are beginning *or* have begun
4. do not have *or* have not had
5. do not allow
6. are conducting
7. are working
8. states

### **ACTIVITY 3, Common Error 1.1, page 8**

1. define
2. are
3. have developed
4. does not involve
5. have continued
6. is not

7. have benefited
8. consider

**ACTIVITY 4, Common Error 1.2, page 9**

1. are taking
2. shows
3. do not understand
4. are visiting
5. ruins
6. are melting
7. is improving
8. does not exist

**ACTIVITY 5, Common Error 1.3, pages 9–10**

1. have studied; believe
2. speak; are
3. qualify; exist
4. focuses; shares
5. have understood; have studied
6. have shown / recommend
7. has remained / remember
8. adopt / need

**ACTIVITY 6, Vocabulary in Academic Writing, page 11**

1. argue
2. indicate *or* illustrate *or* show
3. indicate *or* illustrate *or* show
4. believe *or* argue
5. illustrates
6. define
7. increase
8. comes
9. requires
10. changes

**ACTIVITY 7, Review Quiz, page 12**

1. a
2. d
3. b
4. b

5. d
6. According to film critics, there are several reasons why fans love *Star Wars*. One reason is the portrayal of the main characters. The other ~~has been~~ **is** the conflict between the characters. Finally, fans are very happy with the actors. (Use the simple present form of *be*.)
7. The idea of the power of positive thinking ~~is~~ **has been** around for decades. Basically, positive thinking involves thinking good thoughts. Using positive thinking leads to happy or pleasant feelings. These thoughts help both the psychological and physical self. (Use the present perfect form of *be* with the time reference *for decades*.)
8. The Druze people ~~is~~ **are** a religious group in the Middle East. Even though their numbers are small, their community has banded together for centuries. Although there are Druze communities in other countries, most are in Lebanon. (Use plural *are* with the plural noun *people*.)

### ACTIVITY 8, Building Greater Sentences, page 13

*Answers may vary.*

1. Florence is a famous Italian city and is the birthplace of the Renaissance. / Florence is an Italian city that is famous as the birthplace of the Renaissance.
2. The U.S. Constitution is a fairly long document, but is it easy to understand.
3. Research has shown that music therapy helps people with depression. / Research has shown that music therapy is helpful to people with depression.

### ACTIVITY 9, Steps to Composing, page 14

The human heart is probably the most amazing organ. This organ is responsible for pushing blood throughout the circulatory system. The left side of the heart pumps blood to the entire body while the right side pumps blood to the lungs to receive oxygen. Each lung does two things: it receives oxygen when we inhale and removes carbon dioxide when we exhale. Inside the lungs, individuals' respiratory systems interact with the circulatory system. Then the blood flows to the right side of the heart into a filling chamber, which is called the right atrium. With each individual heartbeat, blood moves from the right atrium into a pumping chamber. After that, the blood picks up oxygen. Once the blood collects oxygen, it pushes back to the heart, filling another chamber, which is called the left atrium. In order to have a better understanding of both the heart and the blood that pumps through our veins, doctors want to expand their research into the blood circulation of the heart. The way the heart functions is amazing.

### ACTIVITY 10, Original Writing, page 15

*Answers will vary.*

## UNIT 2

**What Do You Know?, page 17**

<sup>2</sup>The period began in 31 BCE, when Augustus ~~was defeating~~ **defeated** Marc Antony in a battle. (For a simple past action, use verb + *-ed*.)

<sup>3</sup>During this period, the Roman Empire was very strong, so citizens ~~turn~~ **turned** their attention from battles to engineering and the arts. (For the simple past, use the verb + *-ed*.)

**ACTIVITY 1, page 19**

1. found; were
2. installed
3. asked
4. came; wrote
5. did not have; sold
6. was; began; died
7. decreased; began
8. did not qualify

**ACTIVITY 2, page 20**

1. was conducting
2. were working
3. was not trying
4. was taking
5. were obtaining; were eating
6. were lacking
7. was not growing
8. were having

**ACTIVITY 3, page 22**

1. provided; were seeking *or* sought
2. came; did not make
3. were attending; developing
4. advised
5. associated; had
6. took; matched
7. did not produce
8. did not allow; needed

**ACTIVITY 4, Common Error 2.1, page 23**

1. According to U.S. census data from 1900, most people ~~did not live~~ **did not live** in large cities; by 1930, the opposite was true.
2. The medical team ~~did~~ identified the cause of the virus and began to research ways to eliminate it.
3. In the past, employers ~~did~~ often performed background checks on job applicants in order to confirm their previous work experience.
4. Data from the U.S. Department of Labor shows that from 1938 to 1968, the minimum wage ~~did~~ increased from 25 cents per hour to \$1.60 per hour.
5. Many members of the so-called Traditionalist Generation, people who were born before 1946, did not ~~viewed~~ **view** work as fun but rather as an obligation.
6. In the story, the main character looked and ~~did~~ saw the bright blue sky through her open window; the window represented her future freedom.
7. In their study, psychologists ~~did~~ compared the grades of students who were procrastinators with those who were not.
8. Following a regular plan of exercise is not easy for many people. However, one study ~~did~~ showed that after only one month of exercising three times a week, people's fitness levels improved.

#### **ACTIVITY 5, Common Error 2.2, page 24**

1. A majority of the young voters, those between the ages of 18 and 24, did not support the local candidate who was ~~run~~ **running** for the office of state senator.
2. Malaysian Airlines Flight 370 was ~~fly~~ **flying** from Malaysia to China when it disappeared.
3. According to a national poll, only 31 percent of the citizens said the new insurance rules were ~~work~~ **working** well.
4. When Czechoslovakia split into the Czech Republic and Slovakia in 1993, some people thought that the two countries were not ~~do~~ **doing** the correct thing.
5. In the 1997 car accident that killed Princess Diana, the driver was possibly ~~drive~~ **driving** more than 100 miles per hour.
6. The study focused on 86 Spanish speakers and 92 Arabic speakers who were ~~attend~~ **attending** an English language program in Orange County, California.
7. In the survey, citizens indicated that local traffic was ~~become~~ **becoming** a problem for the community because of all the tourists who were visiting the area.
8. Because the cost of tuition was ~~increase~~ **increasing**, many students decided to study part time.

#### **ACTIVITY 6, Common Error 2.3, page 25**

1. appeared; spread; were playing; making
2. killed; broke; did not receive; thought
3. contributed; rained; flowed; took; caused; moved; were pushing *or* pushed; ate; allowed; formed
4. immigrated; were seeking; were looking; came; increased

### ACTIVITY 7, Common Error 2.4, page 26

1. Joe Rantz, a 1936 Olympic gold medal winner, had a difficult childhood. His mother died when he was three. When Joe was 15, his father, stepmother, and their children ~~move~~ **moved** away and left him behind.
2. A recent survey of students pursuing degrees online showed that half of the students lived within 50 miles of the college. Students also said that cost ~~is~~ **was** a major consideration when they chose online programs.
3. In 1776, the United States became a country with only 13 states. In 1791, Vermont joined the young country as the 14th state. Less than three months later, Kentucky ~~enters~~ **entered** the United States.
4. Schuyler Skaats Wheeler invented the fan in 1882. Philip Diehl, however, ~~has~~ **had** the idea to attach a fan blade to a motor. He hung it from the ceiling and created the first ceiling fan.
5. In 1946, the Center for Disease Control concentrated on controlling the spread of diseases, but its mission changed later. For example, it ~~works~~ **worked** with the Food and Drug Administration to address food safety and nutrition issues after the Food Safety Modernization Act passed in 2011.
6. During the 1840's, pioneers in the United States traveled west in order to find work. They took all of their possessions with them, and many just ~~abandon~~ **abandoned** their homes.
7. Jaguars were once plentiful in the United States, but an Arizona hunter ~~shoot~~ **shot** and killed the last female jaguar in 1963.
8. Health care has changed significantly over the years. In the past, patients ~~remain~~ **remained** in the hospital much longer, hospitals offered very little outpatient surgery, and doctors often gave patients minimal information about their condition.

### ACTIVITY 8, Vocabulary in Academic Writing, page 27

1. did not have
2. began
3. were making
4. took
5. became *or* was
6. worked *or* was working
7. were not *or* were not being
8. were doing
9. came
10. said

### ACTIVITY 9, Review Quiz, page 28

1. b
2. d

3. a

4. b

5. c

6. The famous Mexican artist Frida Kahlo, who is well-known for her brightly colored, primitive-style works and for her many self-portraits, first began to paint while she was recovering after a bus accident ~~was making~~ **made** her unable to walk for three months. (Use the simple past form of the verb.)

7. When architects first developed “green” buildings, many of them ~~were having~~ **had** energy-saving features. In order to conserve water, architects also designed landscapes with plants that were native to the area. (Stative verbs should use the simple past.)

8. In the 1920s, as car ownership in the United States increased and people traveled farther from home, many other changes such as paved roads, traffic signals, and gas stations also ~~occure~~ **occurred**. (Use the past form of the verb.)

### **ACTIVITY 10, Building Greater Sentences, page 29**

*Answers may vary.*

1. In early 1986, Florida biologists put a collar on an endangered male panther and monitored him for almost nine years until he died in 1994.

2. A marine biologist spotted a group of rare dolphins when she was looking for whales off the Washington coast.

3. While the *Titanic* was sailing from England to the United States in 1912, it hit a huge iceberg and sank.

### **ACTIVITY 11, Steps to Composing, page 30**

June 28, 1914, was an extremely important date in the history of the world. On that date, Archduke Ferdinand of Austria-Hungary was visiting Sarajevo, which is in Bosnia-Herzegovina. While the Archduke was riding through the city with his wife in an open car, a teenager shot the Archduke and the Archduke’s wife. He killed the Archduke and his wife. This single event caused a series of political actions that resulted in the start of World War I. On July 28, Austria-Hungary declared war on Serbia. A week later, Germany, Russia, and France were involved, and Belgium, Montenegro, and Great Britain were also involved. This war lasted four years and resulted in the deaths of millions of people. Most people have heard about this war, although very few actually know how the war began.

### **ACTIVITY 12, Original Writing, page 31**

*Answers will vary.*

## **UNIT 3**

### **What Do You Know, page 33**

<sup>3</sup> For the past two decades, people ~~debated~~ **have debated** this issue. (Use the present perfect to show something is continuing into the present.)

<sup>7</sup> This paper will examine three ways in which human beings have ~~contribute~~ **contributed** to global warming. (Use the past participle with present perfect.)

### **ACTIVITY 1, page 34**

1. have written
2. has existed
3. has not increased
4. has been
5. have not found
6. have won
7. has become
8. have had

### **ACTIVITY 2, page 36**

1. have become
2. has faced
3. have not persuaded
4. has done
5. have suggested
6. has caused
7. has voted
8. has not grown
9. has won
10. have known

### **ACTIVITY 3, Common Error 3.1, page 37**

1. has been
2. revolves
3. is
4. have
5. have ruled
6. have produced
7. has had
8. do not sneeze

### **ACTIVITY 4, Common Error 3.2, page 38**



1. have used; appeared
2. has been; began; have flown
3. has heard; began; participated; has grown
4. married; watched; was
5. became; existed
6. ended; have not recovered
7. navigated; returned

#### **ACTIVITY 5, Vocabulary in Academic Writing, page 39**

1. have taken
2. have given
3. has been
4. have done
5. have seen
6. have shown
7. have had
8. has become
9. has; come
10. has made

#### **ACTIVITY 6, Review Quiz, page 40**

1. b
2. d
3. b
4. b
5. a
6. Many people have recently ~~criticize~~ **criticized** Congress because less than a month ago it raised taxes by almost 5 percent. (For the present perfect, use *have* + past participle.)
7. Due external pressure, several clothing companies have decided to cancel their business relationship with factories ~~at~~ **in** countries with poor working conditions. (Incorrect preposition is used.)
8. Telephone usage is changing, and cell phones are replacing land lines all over the world. In Argentina, for example, 2010 statistics ~~have revealed~~ **revealed** that there were more than 31 million cell phone users. (Present perfect is not used unless the action is ongoing or still true; use simple past here because it was in a specific year.)

#### **ACTIVITY 7, Building Greater Sentences, page 41**

*Answers may vary.*

1. The ancient city of Al-Ula in Saudi Arabia has not been occupied since 1983, when the last residents left.

2. Singapore and Malaysia used to be one country, but Singapore has been independent since their separation in 1965.
3. China is a very big country, but it has had only one time zone since 1949.

### ACTIVITY 8, Steps to Composing, page 42

Since opening its doors in 1990, Murray College has helped more than 10,000 students graduate. While the majority of them entered the workforce almost immediately, a good number of these students entered graduate programs. Therefore, it is not surprising that Murray College is frequently ranked as one of the best colleges in the country. Why does Murray College rank so high? First of all, students and their parents are very satisfied with Murray College's excellent job placement rate. The second reason involves money. Despite the rising cost of everything today, tuition at Murray has remained relatively low. Finally, students appreciate having smaller classes with helpful professors who take a strong interest in student success. Since it opened over a decade ago, graduates from Murray College have said that the college was an excellent investment in their future.

### ACTIVITY 9, Original Writing, page 43

*Answers will vary.*

## UNIT 4

### What Do You Know?, page 45

<sup>3</sup>The study ~~will to seek to~~ **will seek to** identify the types of campus resources available to these students and how often the students use them. (Future form is *will* + base verb.)

<sup>7</sup>The study ~~takes place~~ **will take place / is going to take place** during the upcoming fall semester. (For future form, we use *will* + base verb or *be going to* + base verb. We know it is future because of the phrase *during the upcoming fall semester*.)

### ACTIVITY 1, page 47

1. C; will continue
2. C; are going to study
3. X; Consumers are more comfortable shopping online when they know the companies ~~will not to make~~ **will not make** personal information available to other businesses.
4. C; may provide
5. C; will not become
6. X; Although many Alzheimer's patients lose the ability to speak, art therapy ~~may to help~~ **may help** them communicate.
7. C; are going to survive

8. X; Reducing financial aid for students in need ~~will to force~~ **will force** many of them to leave college.

**ACTIVITY 2, page 49**

1. a. will pay
2. b. are going to take
3. d. may provide
4. a. will [definitely] give
5. b. will help
6. d. may need
7. b. will become
8. c. will require

**ACTIVITY 3, Common Error 4.1, page 50**

1. will describe; will evaluate
2. will find; may help
3. will likely result
4. may be
5. may lead
6. will guide
7. may confirm
8. may need

**ACTIVITY 4, Common Error 4.2, page 51**

1. will face; will definitely benefit
2. will not disappear
3. will save *or* may save; will increase *or* may increase
4. will help *or* may help
5. will find; may lead
6. will not benefit
7. may mean; may confirm
8. will stop; may not recover *or* will not recover

**ACTIVITY 5, Common Error 4.3, page 52**

<sup>3</sup>Results from previous studies show that if students will test **test** themselves before taking an exam, they will do better on the exam.

<sup>7</sup>The experiment will begin as soon as there will be **are** 50 volunteers.

<sup>8</sup>When the students will work **work** in their assigned groups, they will keep logs of their study habits, test scores, and end-of-term grades.

<sup>11</sup> Researchers believe students ~~become~~ **will become** better learners if teachers ~~will use~~ **use** these strategies in their classrooms.

<sup>13</sup> However, researchers will not recommend any curriculum changes unless the results of the study ~~will be~~ **are** significant.

### ACTIVITY 6, Vocabulary in Academic Writing, page 53

1. are going to become / will become / may become / are going to be / will be / may be
2. will lead / may lead
3. may go / will go
4. will know
5. may happen / will happen
6. may do / will do
7. will be / is going to be
8. will not come / are not going to come / will not go / are not going to go
9. will need / may need / is going to need / will have / may have / is going to have
10. will have / are going to have

### ACTIVITY 7, Review Quiz, page 54

1. a
2. c
3. c
4. d
5. b
6. After examining all of the data, school officials strongly believe that a longer school year will ~~helping~~ **help** students to remember more and forget less during the summer break. (Use the base form of the verb after *will*.)
7. The Ocean Cleanup Project predicts that it ~~may to be~~ **may be** possible over the next 10 years to remove almost half of the plastic that is floating in the Pacific Ocean and to sell it to companies that will recycle it. (The infinitive form is not used after *may*.)
8. When companies use artificial intelligence to do work instead of using humans, the unemployment rate ~~is increasing~~ **will increase** significantly, and poverty rates may rise as well. (Use simple present in the dependent time clause, but use a future form in the main clause.)

### ACTIVITY 8, Building Greater Sentences, page 55

*Answers may vary.*

1. Some economists fear that robots are going to replace human workers because they are more efficient and cost less than workers.
2. Studies show that new businesses may lose customers and sales when they display too little merchandise.

3. The National Highway Safety Administration predicts that the number of people who will die in traffic accidents this year will be approximately 8 percent higher than last year's number.

### **ACTIVITY 9, Steps to Composing, pages 56–57**

For this psychology project, my research partner and I will recreate the change blindness experiment from chapter 7 in our textbook. This experiment tests how well people notice changes that happen. For this experiment, I will stand behind the checkout desk in the library and hand out a short library survey and a pencil to students when they check out books. When I hand them the pencil, I will accidentally drop it. When I bend down to get the pencil, my partner, who is down behind the desk out of sight, will stand up and give the pencil to the student while I stay down and out of sight. After the student leaves, we will record whether the student noticed the change and whether the student said anything. The differences between us are going to be very obvious. My partner and I do not resemble each other. He is 5 feet 10 inches and has dark brown hair and a mustache, while I am 5 feet 8 inches with light brown hair and no mustache. In addition, we will both wear different shirts. We predict that many of the students will not realize that they have interacted with two different people.

### **ACTIVITY 10, Original Writing, page 57**

*Answers will vary.*

## **UNIT 5**

### **What Do You Know?, page 59**

<sup>2</sup>The earliest written record of this saying was ~~at~~ **in** the 1860s. (With years, use the preposition *in*.)

<sup>5</sup>Apples are also good for our digestion because they are full ~~by~~ **of** fiber. (The correct preposition is *of*.)

### **ACTIVITY 1, pages 60-61**

1. Many businesses are not giving employee salary raises at this time due to a lack of funding.
2. The many employees at the Riviera Bank lost their jobs after the National Bank purchased the Riviera Bank in November.
3. In the last decade, temperatures at the North Pole have been unusually warm.
4. One of the greatest health threats in the United States is skin cancer.
5. The article discusses the differences in laws with regard to e-cigarettes.
6. In Alaska, the Northern Lights, or Aurora Borealis, are often visible in the winter because of the extreme darkness.

7. The new transportation report shows the growth in the number of people taking the new buses from the city center.
8. Spanish, which started in the Castile region of Spain, is an example of a Romance language.

### **ACTIVITY 2, page 61**

1. The government announced that unemployment was at its lowest point in the last decade.
2. Recent research shows that people remember information that they read in print format better than information they read in digital format.
3. The inspectors found that many bridges that were built before the early 1900s needed repairs.
4. Most international students experience culture shock. For this reason, these students should learn about culture shock.
5. In the United States, most public holidays are on Mondays rather than on the anniversaries of the events they honor.
6. A cupcake with icing may contain up to 300 calories.

### **ACTIVITY 3, page 63**

1. on; location
2. instead of; logical relationship
3. into; direction
4. in; logical relationship
5. as soon as; time
6. at; location
7. into; direction
8. In; time

### **ACTIVITY 4, page 63**

1. the current problem of
2. resulted in
3. be addicted to
4. interested in
5. a major source of
6. consists of
7. accuses you of
8. the current problem of

### **ACTIVITY 5, Common Error 5.1, page 64**

1. of; in
2. on
3. for; in
4. in

5. to; for
6. in
7. in; between; of
8. 20 years ago

**ACTIVITY 6, Common Error 5.2, page 65**

1. is; get
2. need; is
3. is; is
4. have; learn; is; use

**ACTIVITY 7, Common Error 5.3, page 66**

1. because of
2. to; from
3. consist of
4. help; with
5. For; on
6. on; in front of
7. instead of; in
8. in; to

**ACTIVITY 8, Vocabulary in Academic Writing, page 67**

1. similar to
2. aware of
3. related to
4. different from
5. associated with *or* related to
6. known as
7. concerned about *or* aware of
8. responsible for
9. capable of
10. interested in

**ACTIVITY 9, Review Quiz, page 68**

1. b
2. d
3. c
4. d
5. c

6. Swans are not only very beautiful and graceful birds, but they are also very loyal animals. Most swans find a mate and stay together ~~since~~ **for** many years, sometimes even for life. (The preposition *for* is often used with amounts of time. *Since* is always followed by the date that something starts to happen.)

7. Procrastinators are not ~~particular~~ **particularly** lazy. In fact, they can be quite hardworking and creative people. They usually have no trouble finding a lot of things to do, as long as it is not the one thing that they are supposed to be doing. (The adverb *particularly* describes the adjective *lazy*.)

8. Becoming physically fit is one of the many ways that people can benefit ~~from~~ **from** **playing** sports. In addition, sports are beneficial for people's mental and emotional health. (Use a gerund form after a verb + preposition combination such as *can benefit from*.)

### ACTIVITY 10, Building Greater Sentences, page 69

*Answers may vary.*

1. The northern lights appear in the northern region of Norway in late autumn, winter, and early spring.
2. In general, products located near the front of supermarkets sell more quickly because of their location.
3. Twitter is so popular all over the world now that there are hundreds of millions of tweets a day, and hundreds of billions of tweets a year.

### ACTIVITY 11, Steps to Composing, page 70

Different cultures view the process of aging in diverse / a variety of ways. In many western cultures, youth is admired and aging is feared. People try to hide the fact that they are aging in a variety of different ways. For example, some people color their hair in order to hide the gray and others go to even more extreme lengths by having plastic surgery done on their faces and bodies to make them appear younger than they are. In addition, senior citizens who can no longer take care of themselves often go to live in homes or communities where professional caretakers can care for them. In other cultures, such as many eastern societies, however, things are very different. Age is respected rather than feared. People in those cultures, for example, tend to think of older people as wise and worthy of respect. The wrinkles on their faces are seen more as a symbol of valuable experience rather than simply as fading beauty. In these cultures, instead of putting their aging parents in specialized homes or hospitals, they often bring them into their own homes and care for them themselves.

### ACTIVITY 12, Original Writing, page 71

*Answers will vary.*

## UNIT 6



### **What Do You Know?, page 73**

<sup>5</sup>It can ~~to~~ cause children to lose confidence in their ability to read and in their ability to learn in general. (*Can* is followed by the base form of a verb, not an infinitive with *to*.)

<sup>8</sup>However, teachers should ~~to~~ encourage their students to read when they show interest rather than force them to read before they are ready. (*Should* is followed by the base form of a verb, not an infinitive with *to*.)

### **Activity 1, page 75**

1. may not cure; can help
2. must consider, can [safely] invest
3. Should [athletes] earn
4. have to find
5. may have to change
6. cannot own; should have
7. would not be
8. supposed to stay

### **Activity 2, page 75**

1. would not be
2. should always be
3. might not
4. did not have to
5. might result
6. can often help
7. should use
8. not supposed to

### **Activity 3, page 77**

1. should
2. did not have to
3. could
4. were not able to
5. will have to; cannot
6. should not
7. had to
8. must

### **Activity 4, page 77**

*Answers may vary.*

**Activity 5, Common Error 6.1, page 78**

1. X; ~~may to continue~~; may continue
2. X; ~~should to wear~~; should wear
3. C
4. X; ~~would to be~~; would be
5. X; ~~must to find~~; must find
6. C
7. C
8. X; ~~cannot to put~~; cannot put

**Activity 6, Common Error 6.2, page 79**

1. did not need to; should not have to; should not be
2. may not be; may not be
3. do not have to know; should not center
4. should not interrupt; may not ever get

**Activity 7, Common Error 6.3, page 80**

1. Some house plants **may be** a dangerous addition to your home, especially if you have small children or pets.
2. Standing desks are becoming more and more popular, but many people with back pain **could be** causing themselves problems by using them incorrectly.
3. The box jellyfish **might be** the most poisonous fish in the ocean.
4. Though research connecting cell phone use with cancer shows little need for concern at this time, using a handset whenever possible **may be** a good safety precaution.
5. Studies show that chewing sugar-free gum after eating **could help** to prevent tooth decay.
6. Facial recognition technology in airports **may be** the best way to keep everyone safer and speed up the process of airport security.
7. Acupuncture **could help** children who have chronic pain.
8. While spending too much time playing video games **may not be** healthy, video games **could be** effective educational tools.

**Activity 8, Vocabulary in Academic Writing, page 81**

1. might seem
2. should include
3. could do
4. will continue to be
5. may lead to
6. should try to

7. would be
8. must take
9. have to
10. can help

### Activity 9, Review Quiz, page 82

1. c
2. d
3. a
4. a
5. a
6. Nowadays, computers ~~can be able to~~ **can/are able to** read people's body language from computer users' movements, which computer scientists are saying could be very helpful in the development of robots. (Use either *can* or *are able to* + *read*, but not both.)
7. The scientists who found the Jurassic dinosaur eggs in China in 2010 ~~know~~ **knew** immediately that this discovery would help them to answer some important questions. (Simple past is used with a past event.)
8. Three-dimensional printing has become a reality faster than many thought possible. Businesses can now choose from several different models, and experts think they will soon ~~to be~~ **be** inexpensive enough for homeowners to purchase. (Future form is *will* + base form of verb.)

### Activity 10, Building Greater Sentences, page 83

*Answers may vary.*

1. Honeybees are dying in huge numbers and need our protection because without honeybees pollinating one-third of all food crops, we may not have enough food to eat.
2. Being a film critic seems like it may be a perfect job for people who love movies, but successful film critics need to know a lot about film making and journalism.
3. E-mail can be very distracting and can prevent you from working efficiently, so experts say you should turn off the e-mail beep sound that signals a new e-mail.

### Activity 11, Steps to Composing, page 84

Money and the way we use it is changing. The money we use in the future might not exist in paper form at all. Already people are using cash less and less. People like to keep cash in their wallets for small purchases, but most people would prefer to use credit or debit cards for everything else. Cryptocurrencies such as Bitcoin may be the money of the future. In fact, Bitcoin is already in use in various places such as Scandinavia. Another alternative to cash and credit cards is the use of mobile payments. With mobile payments, smartphones can act like credit cards. Before too long, credit cards, cash, and checks could be a thing of the past.

### Activity 12, page 85

*Answers will vary.*

## UNIT 7

### What Do You Know?, page 87

<sup>1</sup>Eduardo Kobra is a famous Brazilian street artist ~~which~~ **who** paints enormous murals on buildings. (We use the pronouns *who* or *that* for people.)

<sup>7</sup>Kobra also paints scenes **that** make statements about topics such as war, pollution, deforestation, and other important social issues. (The adjective clause is missing the relative pronoun for the subject of the clause.)

### ACTIVITY 1, page 89

1. In 1986, the U.S. Congress passed the Computer Fraud and Abuse Act, which made computer hacking a crime.
2. The main purpose of this paper is to present key information from a recent study that showed that infants see colors differently from older people.
3. The Taj Mahal, which the Emperor Shah Jahan built in 1632 for his dead wife, is one of the best examples of Mughal architecture.
4. The planet Venus is the only planet which has days that are longer than its years.
5. Sea turtles are reptiles that marine biologists are fighting to protect.
6. Astronaut Scott Kelley, who has a twin brother who is also an astronaut, spent 340 days on the International Space Station.
7. There is a famous memorial in Berlin for the 96 German politicians who tried to stop Hitler in 1933.
8. Some doctors are prescribing meditation along with prescription medications for their patients for whom high blood pressure is a problem.
9. *Rashomon*, for which film director Akira Kurosawa is perhaps most famous, premiered in Tokyo in August of 1950.
10. The state of Louisiana includes 2,482 islands that cover nearly 1.3 million acres.

### ACTIVITY 2, page 90

1. that
2. whom
3. that
4. with whom
5. who
6. which
7. in which

8. that

### ACTIVITY 3, page 91

1. **NE; E** Chlorophyll, which makes plants green, is a biomolecule that allows plants to absorb energy from light.

2. **E; E** In some countries, linguists are working with native tribes that have languages that are disappearing.

3. **E; E** There are now various genealogy Web sites that help people discover family members and ancestors of whom they have no knowledge.

4. **NE; E** Abraham Lincoln, who had a wife from a slave owning family, was the U.S. president who was responsible for making slavery illegal.

5. **E; E** People who are irrationally afraid of spiders have a phobia that is called arachnophobia.

6. **E** Genetics is the field of biology which may hold important answers to questions about hereditary diseases and their cures.

7. **E** Social media Web sites are particularly useful for finding old friends with whom people have not had any contact in many years.

8. **NE** Professor Denke, who is one of the authors of our history textbook, makes the subject interesting and important by connecting the past with the present and the future.

### ACTIVITY 4, Common Error 7.1, page 92

1. who

2. which

3. who/that; who/that

4. that

5. which

6. that

7. that

8. which

### ACTIVITY 5, Common Error 7.2, page 93

1. The lima bean plant has developed a special protection against caterpillars that eat the plant. When caterpillars start to eat the lima bean plant, the leaves release a special scent. This scent, which smells very good, alerts other nearby plants of the caterpillar danger. Then, all the lima bean plants together release the same strong scent. This scent attracts wasps, which are a natural enemy of the caterpillars. The wasps save the lima bean plants by killing the caterpillars.

2. Alcatraz Island, which consists mainly of rock, is a very small island in the middle of San Francisco Bay. It is just a little over one mile from the San Francisco shore. At first, Alcatraz was a lighthouse, but for 30 years it was a federal prison, from which escape was almost impossible. To escape, prisoners needed to be very good swimmers. This is because the water

around Alcatraz Island, which is very cold and has very strong currents, has Great White sharks in it. Now, Alcatraz is a popular park, which people can reach by ferry.

3. Computer Network Engineering is a relatively new field of Information Technology.

Computer network engineers, who are also referred to as network architects, are the people who design and plan computer networks. They are not the network administrators, whom people call if they have computer problems. A computer network engineer often has a specialized certificate in addition to an undergraduate degree in network administration or computer science.

4. The first woman to go into space, Valentina Tereshkova, was a Russian cosmonaut.

Tereshkova, who was a factory worker when she applied to be a cosmonaut, was hired as a cosmonaut partly because she was also an expert skydiver. Tereshkova's trip into space was in the Vostok 6, which launched June 16, 1963.

#### **ACTIVITY 6, Common Error 7.3, page 94**

1. Malala Yousafzai, the Pakistani girl **who** was shot on her way home from school, received the Nobel Peace Prize in 2014.

2. The dot-com bubble (1997–2000) refers to a period of time **in which** many new Internet companies opened up and succeeded.

3. Tex-Mex food is a type of food **which** combines Mexican and American ingredients.

4. Vegans are vegetarians **who** do not eat eggs or any dairy products.

#### **ACTIVITY 7, Common Error 7.4, page 94**

1. The word *blue* can mean a color or it can mean *unhappy*, but the meaning that native-speaking children learn ~~it~~ first is a color.

2. Many people are concerned about the amount of food that restaurants and supermarkets discard ~~it~~.

3. The chemicals that companies put ~~them~~ into cleaning products and cosmetics to make them smell better can cause some people to have health problems.

4. New research supports the theory, which no one has been able to prove ~~it~~ so far, that brain size relative to body size indicates something about intelligence.

#### **ACTIVITY 8, Vocabulary in Academic Writing, page 95**

1. exposure

2. access

3. alter

4. precise

5. trends

6. phases

7. prior

8. challenge

9. conflicts

10. adequate

**Activity 9, Review Quiz, page 96**

1. b
2. d
3. c
4. a
5. c

6. Many islands that have volcanoes on them have some very beautiful black sand beaches, that which often become uncomfortably hot in the summer sun. (*That* cannot be used in a nonrestrictive adjective clause. Use *which*.)

7. Ninety-five percent of the cables, which that connect countries to the Internet are at the bottom of the ocean. (The adjective clause is an essential detail. Therefore, it does not need a comma and should begin with *that*.)

8. Although gardening can be hard physical work, many people say that it is a hobby who which/that they find very relaxing mentally. (Gardening is a hobby, which is a thing, not a person. Use *which* or *that*, not *who*.)

**ACTIVITY 10, Building Greater Sentences, page 97**

*Answers may vary.*

1. There are about 5,000 stars which are bright enough for people to see from Earth without a telescope, and all of them are brighter than the sun.

2. ACL injuries, which are injuries to the knee which can end an athlete's career, happen almost twice as often to female athletes as to male athletes.

3. Nelson Mandela, who died in 2013, spent 27 years in prison before he became South Africa's first black president.

**ACTIVITY 11, Steps to Composing, pages 98–99**

Shinichi Suzuki, a Japanese musician who lived from 1898 to 1998, wanted to find a way to teach children how to play musical instruments that was easier, more natural, and more effective than traditional methods. He observed how easily and naturally young children learned their first language and wondered if children could learn to play musical instruments in the same way. This thinking led to the development of the Suzuki Method, which Suzuki first called the Mother Tongue Method. Suzuki thought that the earlier a child started to learn to play an instrument, the better. The Suzuki method encourages parents to expose their children to music from birth and then start them in formal instruction at age three or four. In the Suzuki Method, however, formal instruction does not involve traditional methods which include studying music theory and learning to read music. In contrast, students of the Suzuki Method first learn to play an instrument by experimenting on their own and through trial and error, which is what they do when learning their first language.

## ACTIVITY 12, page 99

*Answers will vary.*

## UNIT 8

### What Do You Know?, page 101

<sup>3</sup>According to research, when people multitask, they aren't actually focusing on more than one thing at once even though **they** think that they are. (An adverb clause needs a subject.)

<sup>5,6</sup>Moving their focus between tasks can be very tiring, and this is a problem. ~~Because~~ **because** people are less likely to perform tasks well when they are tired. (An adverb clause cannot stand alone. It should be joined to an independent clause.)

### ACTIVITY 1, pages 102–103

SC

1. Although many children play on sports teams these days, parents should be aware that head injuries in children can be serious and take a while to heal.

2. The number of cigarette smokers did not decrease until the middle of the twentieth century

SC

when people started to become aware of tobacco's health risks.

3. Dermatologists believe that everyone should put sunscreen on their faces to protect their skin

SC

whenever they go outside.

SC

4. After cell phone cameras improved, digital camera sales dropped significantly.

SC

5. When people watch a solar eclipse, it is important to use special glasses to avoid eye injuries.

SC

6. While fruit is generally considered a healthy snack, eating a lot of fruit can be unhealthy

SC

because of the high quantities of fructose in fruit.

SC

SC

7. Although people may feel tired, once they start exercising, they often feel more energized.

SC

8. Because the bark of the giant sequoia tree is so thick, it can survive forest fires and lightning strikes better than many other types of trees.

### ACTIVITY 2, page 103

*Answers will vary.*



### ACTIVITY 3, page 104

1. e: Some people believe they sleep badly whenever there is a full moon.
2. c: Though most meteorologists predicted heavy rain storms, very little rain fell.
3. d: The World Wildlife Fund is raising money so that it can help endangered species.
4. a: Some people use turmeric for muscle pain since it can decrease inflammation.
5. b: Although few animal species can speak, most animals communicate in some way.

### ACTIVITY 4, Common Error 8.1, page 105

1. X: Although meditating for 15 minutes or longer is better, even a few minutes of meditation can reduce stress.
2. C: In Nepal, communities are working with wildlife authorities so that they can eliminate the killing of tigers.
3. X: Because it has a strict outdoor lighting policy, Flagstaff, Arizona, was declared the first International Dark Sky Community in 2001.
4. X: Though many people thought it was too dangerous, Laura Dekker sailed around the world alone at the age of 16.
5. C: In 2012, over 75 percent of the world's population was already using cell phones even though they only came into common use in the late 1990s.
6. X: Because the monsoon rains started late, farmers are concerned that they may have fewer crops this year.
7. C: In many cultures, parents pick up their babies as soon as they start to cry.
8. X: Once the *Titanic* hit the iceberg, it only took two hours and forty minutes to sink.

### ACTIVITY 5, Common Error 8.2, page 106

1. S: Some people call a doctor whenever they feel sick, while others prefer to wait a day or two.
2. F: ~~Because~~ Raccoons have been able to adjust to life in urban centers very well in many parts of the U.S. (delete *because*)
3. F: ~~While~~ Some people say they never forget a face. (delete *while*)
4. S: After there is lightning, there is always thunder.
5. F: ~~Although~~ In the past, American young people typically moved out of their parents' homes after they graduated from high school. (delete *Although* and insert comma after *past*)
6. S: A rooster crows so that other roosters will know to keep away.
7. F: The Sagrada Familia Church in Barcelona still is not finished ~~even though~~. (delete *even though*)
8. S: People sweat from certain glands when they get hot and from different glands when they are anxious.

### ACTIVITY 6, Common Error 8.3, page 107

1. While the human body has several billion atoms, it also contains a vast amount of empty space. In fact, there is so much empty space that once all the empty space is removed, the remaining atoms are no bigger than a sugar cube. Another interesting fact about these atoms is that they are present in everything on the planet. However, there are different types of atoms, although most people are only familiar with a few of them.
2. Plants and bees need each other to survive. The bees eat the plant pollen, and the plants need the bees to transfer the pollen from plant to plant. When the bees eat the pollen, the pollen coats their bodies and their faces. Then the bees fly to other plants because they cannot obtain enough pollen from just one plant. When the bees land on the next flower, the pollen from the other plant rubs onto the new plant. Plants need this new pollen so that they can produce new fruit.
3. Light pollution is a problem because it prevents people from seeing the night skies clearly. Although that is a problem, it is not the only problem light pollution causes. Light pollution also causes some health problems. For example, light pollution prevents people from creating enough melatonin. While melatonin is necessary for healthy sleep cycles, it may also be important for other things. For example, it is possible that melatonin helps to strengthen immune systems since scientists have found links between health problems such as obesity, depression, and certain cancers and too much artificial light at night. Although these problems might be a result of unhealthy sleep patterns, scientists are studying melatonin's other effects on the body.
4. At one time, millions of years ago, the seven continents were all one continent: the continent of Pangea. Although this is well known now, people were not aware of it until 1912 when a meteorologist noticed that the continents were like pieces of a puzzle. Alfred Wegener, the meteorologist, named the continent with the Greek word *Pangea* because it means *all lands* in Greek.

#### ACTIVITY 7, Common Error 8.4, page 108

1. C: Babies do not develop kneecaps until they are about six months old.
2. X: While Queen Victoria became the queen of an empire consisting of more than 400 million people when she was only 18 years old.
3. X: Although recent research on teens and video games has concerned many people, ~~because~~ it appears that video games can be addictive for some teens.  
*or*  
~~Although recent~~ **Recent** research on teens and video games has concerned many people because it appears that video games can be addictive for some teens.
4. C: It is important for people to study the geology of other planets so that they can better understand the history of our solar system.
5. C: Turtles and many other sea animals return to the beach of their birth when it is time for them to lay their own eggs or give birth to their young.
6. X: Although it may soon be possible to build an emotion detector similar to a lie detector, ~~whereas~~ the question is whether this new technology would be a good thing or not.

7. X: Because the Atacama Desert in Chile is one of the driest places on Earth, ~~so~~ its soil has been compared to that on Mars.
8. C: When the Museum of Islamic Art in Qatar opened, I. M. Pei, the famous architect who designed the building, was already 91 years old.

### ACTIVITY 8, Vocabulary in Academic Writing, page 109

1. Although it was **obvious** by the mid-1960s that tobacco smoke could cause cancer, many people had trouble quitting because they were already addicted to smoking.
2. The U.S. presidential candidates **debate** the election issues several times before the people vote.
3. Many students do not make career **goals** until after they finish their studies.
4. Environmentalists are constantly testing the **concentration** of carbon dioxide in the air because high levels of it can cause climate change.
5. As the population ages, the government needs to plan for the economic **implications** of a large number of retired people in society.
6. Scientists conducted **investigations** into the habits of desert bats so that they could use the bats to protect plants from plant-eating insects.
7. Once scientists decide on a **hypothesis**, they design a research study to test whether it is true or false.
8. The Desert Lily is a plant that can live in the desert for many years until there is enough rain for it to **emerge** from under the ground.
9. It can be very difficult for people to make decisions when they have a lot of **options**.
10. Since obesity is a serious problem in the United States, the Food and Drug Administration now requires packaged food **labels** that make the serving sizes and calories easy to read.

### ACTIVITY 9, Review Quiz, page 110

1. b
2. a
3. d
4. a
5. c
6. Neil Armstrong, the first man to walk on the moon, joined NASA immediately after he left the U.S. Navy in 1952 although **he** did not become an astronaut for 10 more years. (There is no subject in the adverb clause *although did not become*, so *he* needs to be added).
7. After 24 years of both women and men advocating for change, in 1893, New Zealand was the first country to change its laws so ~~then~~ **that** women could vote in national elections. (*So then* is not a subordinating conjunction; change to *so that*.)
8. According to recent research, when our eyes ~~moved~~ **move** during the REM (rapid eye movement) period of sleep, we see changing images, which might be why our dreams move

from place to place. (*Moved* should be *move* because it refers to something that happens regularly in the present.)

### **ACTIVITY 10, Building Greater Sentences, page 111**

*Answers may vary.*

1. Although Death Valley is the hottest and driest place in North America, an enormous amount of plant and animal life exists there.
2. While the human body is made up of several billion atoms, it also contains a huge amount of empty space.
3. In 1963, when Martin Luther King, Jr., gave his famous “I have a dream” speech in Washington, D.C., approximately 250,000 people were there.

### **ACTIVITY 11, Steps to Composing, page 112**

Near Los Angeles, there is a small town alongside the Los Angeles River that most people call Frogtown, even though that is not its official name. There are not many frogs there now, but it is called Frogtown because at one time there were thousands and thousands of very small, green frogs there. There were so many frogs there that at times all the streets and yards were covered with them. This lasted until the 1970s when the frogs started to disappear from Frogtown. The small frogs started disappearing because suddenly there were lots of large American bullfrogs in the area, and American bullfrogs eat small frogs. Where did the American bullfrogs come from? At that time, farmers were raising American bullfrogs to sell to restaurants for their frog legs. However, eating frog legs went out of fashion, so the farmers released their bullfrogs into the wilderness. Since American bullfrogs need to be near water, they found their way to the Los Angeles river. Then the bullfrogs found the small green frogs in Frogtown and they ate them until there were hardly any frogs left in Frogtown.

### **ACTIVITY 12, page 113**

*Answers will vary.*

## **UNIT 9**

### **What Do You Know?, page 115**

<sup>4</sup>Examples of explicit memory include remembering dates and historical events in order to answer a question on **an** exam or recalling when a recent purchase was made. (A singular count noun needs an article. We use the indefinite article *an* when talking about something in general.)

<sup>9</sup>Explicit and implicit, or procedural, memories are stored in different areas of **the** brain. (We use the definite article for a specific item in a prepositional phrase.)

**ACTIVITY 1, page 117**

	a	an	the	no article
1. An <u>example</u> of a <u>pack animal</u> is the <u>South American llama</u> .	1	1	1	0
2. After <u>residents</u> saw an <u>increase</u> in <u>crime</u> , they established a <u>neighborhood watch program</u> .	1	1	0	2
3. An <u>individual</u> entering the <u>workforce</u> needs to take <u>responsibility</u> for <u>personal and professional decisions</u> .	0	1	1	2
4. A <u>hypothesis</u> is a <u>prediction</u> and is based on a <u>theory</u> that a <u>researcher</u> can test.	4	0	0	0
5. In the <u>experiment</u> , the <u>participants</u> made a <u>commitment</u> to provide accurate <u>answers</u> to the <u>questions</u> on the <u>survey</u> .	1	0	4	1
6. A <u>common mistake</u> for many <u>first-time homebuyers</u> is forgetting to include the <u>cost</u> of <u>property taxes</u> and <u>insurance</u> in their <u>budget</u> .	1	0	1	4
7. <u>Global warming</u> is a <u>universal issue</u> that concerns most of the <u>countries</u> around the <u>world</u> .	1	0	2	1
8. A <u>professional relationship</u> with a <u>mentor</u> is <u>one way</u> to develop <u>leadership skills</u> and <u>career opportunities</u> .	2	0	0	3
9. The <u>low number</u> of <u>respondents</u> to the <u>survey</u> was a <u>huge disappointment</u> to the <u>researchers</u> .	1	0	3	1
10. In an <u>effort</u> to protect <u>African elephants</u> , the <u>United States</u> has enforced a strict <u>ban</u> on <u>commercial imports</u> of <u>ivory</u> .	1	1	1	3

**ACTIVITY 2, page 120**

1. **The** growing season in **the** United States varies according to the region of the country. It is shorter in Ø Alaska and longer in Ø Florida, for example.

2. Ø Students who major in Ø education often take a course in how to create an atmosphere of positive learning.
3. Ø Vaccines are available for the prevention of a number of diseases including Ø smallpox, Ø polio, and Ø tuberculosis.
4. People who dislike reading Ø fiction may find narrative non-fiction, which tells a story but is based on fact, more enjoyable.
5. An unsafe product on store shelves puts all Ø consumers at risk.
6. An alphanumeric password contains Ø letters, Ø numbers, and/or Ø symbols and is the best choice for protecting one's personal information.
7. The Internet is a group of networks that allows users to access Ø information and to communicate with others around the world.
8. A recently published study indicates that a person's taste in music may offer insight into his or her personality.
9. Ø Astrophysicists have different opinions on how the galaxy that we live in, the Milky Way, was formed.
10. Working as a research assistant at a university often involves collecting and putting Ø data into a spreadsheet.

### ACTIVITY 3, Common Error 9.1, page 121

1. Taking a short quiz is an effective way to prepare for an exam.
2. Psychology is a science. It is the scientific study of mental processes and human behavior.
3. A paralegal assists a lawyer with tasks such as conducting research, organizing files, and preparing for meetings, trials, and hearings.
4. Andrew Carnegie, a leader in the U.S. steel industry in the late nineteenth century, said, "When fate hands us a lemon, let's try to make lemonade."
5. A lionfish is an invasive fish that poses a threat to humans and other fish in the waters off the United States.
6. "The Interlopers" is a short story by H. H. Munro, who wrote under the name of Saki. The story is about two men who are involved in a longtime family disagreement.
7. A professional dancer is an athlete, someone who trains every day to perfect his or her performance.
8. Fossil fuels, such as oil, natural gas, or coal, are a nonrenewable energy source.

### ACTIVITY 4, Common Error 9.2, page 122

1. One of the best ways to learn a second language is to live in a country where people speak the language.
2. People living along the Atlantic coast may someday have to move inland due to rising sea levels.
3. Spanish explorers brought the horse to the New World, an animal that proved useful for the Native Americans living there.

4. Steve Jobs introduced **the** iPhone to **the** world in 2007, and Apple has sold close to one billion units.
5. Many of **the** organic fruits and vegetables consumers buy are from farmers who live in **the** local community.
6. During **the** spring and autumnal equinoxes, **the** sun passes directly over the equator.
7. The American white ibis, a tropical bird with white feathers and a long, curved, red-orange bill, lives along **the** southern coastline of **the** United States.

#### **ACTIVITY 5, Common Error 9.3, page 123**

1. The explorer Christopher Columbus introduced the lemon to Haiti.
2. Taking public transportation benefits both people and the environment by reducing the number of cars on the road
3. There are several reasons almost every college student owns a computer.
4. Obtaining a college degree has a positive effect on the amount of one's lifetime earnings. The difference over a lifetime can be as much as \$400,000.
5. A beaker is a glass container that is used in a chemistry lab.
6. Mahatma Gandhi led a model life as an activist for nonviolence.
7. Charles Lindbergh, famous for his nonstop flight from New York to Paris, was a graduate of the University of Wisconsin–Madison.
8. Building inspectors use the term *egress* to refer to the ways a person can exit a building: doors, windows, and hallways, for example.
9. The United States is an example of a democracy.
10. Antonie van Leeuwenhoek of the Netherlands was the first person to see a living cell with a microscope.

#### **ACTIVITY 6, Common Error 9.4, page 124**

1. When ~~the~~ college students need ~~the~~ career advice, they can visit the career center on their campus or meet with an advisor.
2. Studies show that ~~the~~ teenagers are heavily influenced by the actions of their peers.
3. As a result of ~~the~~ technology, ~~a~~ communication between ~~the~~ people has changed in numerous ways.
4. The use of ~~the~~ technology in the classroom has had both ~~the~~ positive and negative effects on ~~an~~ education.
5. Research suggests that working on a team enhances ~~the~~ creativity, improves ~~the~~ communication, and results in ~~a~~ shared learning.
6. A recent poll shows that many people believe that reading ~~the~~ e-books has several disadvantages over reading ~~the~~ print books.
7. For ~~the~~ immigrants, adjusting to a new culture often causes ~~the~~ anxiety and may even lead to ~~the~~ depression.
8. Creating ~~the~~ art has a number of benefits: it relieves ~~the~~ stress and increases brain function.

### ACTIVITY 7, Vocabulary in Academic Writing, page 125

1. Research
2. a result
3. An example
4. participants / the participants
5. a variety / a number
6. The number
7. education
8. studies
9. An increase
10. the health

### ACTIVITY 8, Review Quiz, page 126

1. c
2. d
3. b
4. c
5. d
6. Recent studies show a growing demand for retirement communities that offer residents safe and comfortable living space, ~~the~~ access to medical care, and a full calendar of social activities. (No article is needed because *access* is a noncount noun used in a general statement.)
7. When writing academic essays, writers should avoid making hasty generalizations and exaggerated claims in order to avoid offending ~~an~~ **the** audience they are trying to reach. (Because a specific audience is being referenced, the writer's audience, we use the article *the*.)
8. People who buy ~~the~~ bottled water often think they are helping the environment when, in fact, they are contributing to pollution by using plastic bottles. (No article is needed because *bottled water* is a noncount noun used in a general statement.)

### ACTIVITY 9, Building Greater Sentences, page 127

*Answers may vary.*

1. The Columbia River Gorge is home to Multnomah Falls, which is the tallest waterfall in Oregon and has a height of 620 feet.
2. The U.S. government encouraged people to plant "victory gardens" during World War II to make more fresh food available and to allow citizens to show their patriotism for the country.
3. Studies show that a child who plays sports may have better grades, develop stronger relationships with his or her peers, and exhibit more self-confidence than a child who does not play sports.

### ACTIVITY 10, Steps to Composing, page 128



People can take several simple steps to protect the environment. One of the easiest steps is turning off the lights when leaving a room. This step saves electricity and lowers one's electric bill. Another step is to turn on a fan and raise the setting on the air conditioner. The fan will make the people in the room feel cooler. In addition to conserving energy, people can also take steps to conserve water. One way is to shut off the water while brushing their teeth. This behavior saves water as well as money. Another way to save money is to drink tap water instead of buying bottled water. Bottled water is more expensive than tap water, and plastic bottles contribute to pollution. Finally, people can plant gardens. Growing vegetables at home enriches the soil and provides organic produce at a much lower cost than purchasing produce at a supermarket. There are numerous ways people can help save the environment, and these first steps are both easy and rewarding.

### ACTIVITY 11, Original Writing, page 129

*Answers will vary.*

## UNIT 10

### What Do You Know?, page 131

<sup>5</sup>However, **there** may be an easier way to get more sleep. (Sentence is missing *there*.)

<sup>8</sup>According to these studies, the ideal temperature for sleeping is between 60 and 67 degrees Fahrenheit or 16 and 19 degrees Celsius, **so** it might be worth turning down the thermostat in your house, or opening a window before going to sleep. (This compound sentence was missing the coordinating conjunction.)

### ACTIVITY 1, page 133

1. S: Most wild animals depend on their instincts more than on learned behavior.

2. C: Fantasy and science-fiction movies help people escape from the world around them, but documentaries make people think about the world around them.

3. C: Maple trees and oak trees are both deciduous trees, so they lose their leaves in the winter.

4. C: High quality dark chocolate contains iron and other nutrients, but it is very high in calories and fat.

5. S: Schools develop children's minds and improve their social skills.

6. S: Hawaii, Italy, Reunion Island, and the Democratic Republic of the Congo have the most active volcanoes in the world.

7. C: People used to get the news mainly from the radio, TV, or newspapers, but these days many people find out about the news from social media and Internet sites.

8. S: According to the most recent reports, self-driving cars should make people's lives easier and the roads safer.

### **ACTIVITY 2, page 135**

1. O
2. Q
3. R
4. I
5. I
6. Q

### **ACTIVITY 3, page 135**

1. The musician Prince wrote many different types of songs, **so** he was popular with people from different generations.
2. Studies of infants' brains shows us how infants learn language, **and** they also show that the brain processes music in the same way.
3. Some medications that elderly people take cause them to lose their appetites, **so** they may not eat enough to get the nutrition they need.
4. No one thinks of mirrors as high-tech inventions, **but** how many people can explain how mirrors work?
5. Both manatees and dolphins live in the warm Florida waters, **but** manatees are more sensitive to the colder winter water temperatures.
6. TV advertisements have become more creative over the years, **and** some of the best ads can be more entertaining than the TV shows.
7. The cost of solar panels has decreased over the years, **so** more people can afford to buy them for their homes and businesses.
8. Babies learn words with repeated syllables better than words without repeated syllables, **so** expressions like "good night" become "night night."

### **ACTIVITY 4, Common Error 10.1, page 136**

1. Although the southern U.S. states **are** famous for their peach trees, most species need about one month of cooler temperatures, so **they** do not grow well in places that do not have enough cold winter days.

2. There **is** no limit to the energy we can get from the sun, but only approximately one percent of the electricity that is used in the world **comes** from this source.
3. Bats are blind, so **they use** their heightened sense of hearing and echolocation to help them navigate the world.
4. Up to 65 percent of young children **have** imaginary friends, but not many of those children **will** remember them when they are adults.
5. The hippocampus is the control center of the memory part of the brain. **It** stores new memories, and it **is** also the part of the brain that retrieves those memories.
6. Before 1965, most of the **pop music** in the United States was American, but the “British Invasion” **took over** the U.S. pop music scene in 1965.
7. According to recent research, **there** is a genetic mutation that allows some people to see more shades of colors than most people can see, and it only **seems** to affect women.
8. Captain Cook and his men **were** welcomed by the islanders when they first arrived in Hawaii, but this **was** because the Hawaiians at first thought that they were gods.

#### **ACTIVITY 5, Common Error 10.2, page 137**

1. The flood caused extensive damage, **but** almost every home was later rebuilt.
2. Recent research shows that it is difficult to focus well when multitasking, **so** multitasking while studying is not a good idea.
3. In the 1600s, England, France, and Spain all tried to gain control of the North American continent, **and** there were many conflicts.
4. Environmental engineers work on pollution and energy use, **and** they also try to solve water, land, and waste issues.
5. Volcanic lightning is very unpredictable and very different from thunderstorm lightning, **so** scientists still aren’t sure what causes it.
6. People are 30 times more likely to be hit by lightning than to be bitten by a shark, **but** sharks are a lot more frightening to most people.

#### **ACTIVITY 6, Common Error 10.3, page 138**

1. More and more people are suffering from allergies these days, **so** nutritionists are recommending that they eat more foods that are high in vitamins C, D, and E. These particular vitamins help to strengthen the immune system, **and** they can also help to make sneezing, coughing, and itchy eyes less serious. There are also medications that help reduce allergy symptoms, **but** these medications tend to make people feel drowsy.
2. Almost all birds find mates, **and** they stay with them for life. This sounds very romantic, **but** birds probably do not stay with their mates because they are in love. Zoologists believe birds such as geese stay together because it is easier to survive. Instead of spending time fighting with other male birds, they can spend that time taking care of their young. It is a very dangerous world for baby birds, **so** having two parents taking care of the babies means they are more likely to survive.

3. Machu Picchu is an ancient Inca city in Peru that was made a UNESCO World Heritage site in 1983. Most archeologists believe that the Incas built Machu Picchu as a place for an Incan emperor in the fifteenth century, **but** no one is absolutely certain. It is on a flat area on the top of a 7,970-foot mountain, **so** it was very difficult to get to. When the Spanish came to colonize Peru in the sixteenth century, the Incas abandoned Machu Picchu. The Spanish destroyed many other beautiful sites, **but** they never found Machu Picchu, **so** Machu Picchu was left untouched. Machu Picchu remained untouched until 1911 when an American historian “discovered” it.

4. Lighthouses keep ships from crashing into rocks, **and** they help to guide ships through dangerous waters or into harbors. They are usually in remote locations far away from cities where there aren’t many lights at night, **but** they are also near harbors to show ship captains how to get into the harbors. Traditionally, lighthouses have been very tall, narrow, circular towers with a revolving light on the top. In the past, people needed to live in the lighthouses to turn the lights on and to check that everything was working correctly. Now everything is automated, **so** it is not necessary for people to live in lighthouses anymore.

#### ACTIVITY 7, Vocabulary in Academic Writing, page 139

1. Studies show that philosophy classes help many students become more **aware** of how they think, and in some cases they can alter the way they view the world and solve problems.
2. Students who fail repeatedly in elementary and secondary school often have the **notion** that they cannot learn.
3. Good politicians need the **capacity** to connect with their voters, but they also need a personality that inspires trust and confidence.
4. Droughts can cause a **decline** in fruit and vegetable harvests, so these foods may become more expensive.
5. Recent research shows that both walking and running may provide **equivalent** health benefits as far as heart disease is concerned.
6. Most Scandinavian, Latvian, and Dutch people speak more than one language, **whereas** most British, Italian, and Portuguese people speak only one.
7. British children learn a very different **version** of what Americans call the Revolutionary War from what American children learn.
8. Officials are concerned about the low **ratio** of physicians to residents in urban areas, so they are taking steps to attract more physicians.
9. The term *millennials* refers to the **generation** of people born after 1980 but before the mid-1990s.
10. Scientists used to claim that a **fundamental** difference between animals and humans was that humans have the ability to use tools and animals do not, but now most people recognize that this is not true.

#### ACTIVITY 8, Review Quiz, page 140

1. c

2. b
3. a
4. b
5. b
6. Urban trees can save cities money by helping with **soil erosion, energy consumption,** and storm water erosion, so some cities have hired urban tree specialists to guide them in their efforts to preserve trees. (There should be a comma between the first two items in a list.)
7. Bette Nesmith Graham, a painter and a typist in the 1950s and '60s, **was** frustrated by all the mistakes she was making on her electric typewriter, so she created Liquid Paper. (Use *was* because the subject, Bette Nesmith Graham, is singular.)
8. In a recent study on friendship, only about 50 percent of the acquaintances that people listed as their friends actually considered themselves friends, **so** people are not always the best judges of friendship. (*But* should be *so* because the independent clause that follows is a logical conclusion, not a contrast.)

#### **ACTIVITY 9, Building Greater Sentences, page 141**

*Answers will vary.*

1. Human babies are born more helpless than other animal newborns, so they need to stay with their parents for a very long time.
2. There has been a lot of research on mindfulness training that shows it can improve people's physical and mental health, but no one is sure how or why it helps.
3. Scientists are using the laws of math to estimate how many living species are on the earth, and they estimate that there may be about one trillion.

#### **ACTIVITY 10, Steps to Composing, page 142**

Facial expressions may be similar all over the world, but the way facial expressions are interpreted is not. In fact, the interpretation of facial expressions changes from culture to culture. For example, people all over the world smile, and everyone recognizes a smile as an expression of friendliness. However, some cultures smile more often than others, and the cultures that smile less often might think that people who smile often are not sincere. Some Northern European cultures feel this way about Americans who tend to smile too easily, in their opinion. Another example of smiles being used in a culture-specific way is in Asia. In some Asian countries, people smile when they feel nervous or anxious. Very few other cultures do this, so this type of smile isn't understood well outside of Asia. Another difference is that Eastern and Western people focus on different parts of the face to read each other's facial expressions. For example, Chinese people tend to focus more on a person's eyes, but Westerners tend to focus more on a person's mouth and eyebrows. Finally, different cultures have different social rules about eye contact. In America, for example, it is critical to maintain eye contact, but in some countries it is considered rude to make eye contact with someone like a teacher or a boss.

## ACTIVITY 11, page 143

Answers will vary.

## UNIT 11

### What Do You Know?, page 145

<sup>4</sup>These days, however, thatched roofs are popular among people who want a traditional look or ~~they~~ **who** are interested in using earth-friendly building materials. (*Who* should be used so *who are* is parallel to *who want*.)

<sup>5</sup>Thatched roofs are valued for their strength and ~~beautiful~~ **beauty**. (The noun *beauty* should be used so that it is parallel with *strength*.)

### ACTIVITY 1, page 147

1. The traditional Mexican drink *horchata* contains rice, milk, water, vanilla, cinnamon, and sugar.  
C
2. The character Superman has appeared in films, on television, and in comic books.  
C
3. Many lines on the New York City subway system have both express and local trains.  
C C
4. In dry climates, gardens should be planted after the summer heat ends and before the fall rains begin.  
C
5. At the age of five months, babies can neither walk nor talk.  
C C
6. An applicant for a passport needs to fill out an application, show proof of citizenship, show ID, submit a photo, and pay a fee.  
C
7. No one can predict where a tornado will strike or how powerful it will be.  
C
8. The liver is the organ that cleans the blood and that produces bile, which helps the body digest fat.  
C
9. Throughout history, people have used horses for riding, for carrying heavy loads, and for pulling wagons and carriages.  
C
10. Male singing voices are usually classified as either tenor (high) or bass (low).  
C

### ACTIVITY 2, page 148

1. b
2. b
3. a
4. a
5. a
6. c
7. c
8. b

### ACTIVITY 3, page 149

*Answers will vary.*

### ACTIVITY 4, Common Error 11.1, page 150

1. College students can live at home, in a campus dormitory, or ~~renting in~~ an apartment.
2. Two-thirds of the people surveyed said they thought married people were happier, healthier, and ~~they were~~ more fulfilled than unmarried people.
3. The most common advice for treating a cold is to rest, drink hot liquids, and ~~taking~~ **take** vitamin C.
4. Scientific experiments on animals can be justified if they will save human lives, end human suffering, and ~~there will be contributions~~ **contribute** to science.
5. A snake moves in a serpentine (S-shaped) movement by contracting its muscles, thrusting its body from side to side, and ~~it creates~~ **creating** a series of curves.
6. For years, mountain gorillas in Uganda have been threatened by habitat loss, disease, and ~~there is~~ illegal hunting.
7. High ticket prices, noisy patrons, and ~~the fact that there is~~ limited parking are three reasons why many people have stopped going to movie theaters.
8. Cinnamon is useful for flavoring food, lowering blood sugar, covering up bad smells, and even ~~eliminate~~ **eliminating** ants.

### ACTIVITY 5, Common Error 11.2, page 151

1. risky
2. move
3. disrupts
4. check
5. local
6. to areas that are normally dry
7. to whiten clothes
8. by taking

### ACTIVITY 6, Common Error 11.3, page 152

1. Working in the garden can burn as many calories as a ~~jog~~ **jogging**.
2. Flying a short distance often takes more time than ~~to drive~~ **driving**.
3. In the past, it was unusual for a husband's income to be smaller than his ~~wife~~ **wife's / wife's income**.
4. The number of exams in undergraduate courses is usually greater than **the number / the number of exams** in graduate courses.
5. Generally a nurse's income is smaller than a ~~doctør~~ **doctor's / doctor's income**.
6. The pronunciation of the letter R in Spanish is the same as **in / the pronunciation of the letter R in Italian**.
7. Since 2013, the cost of housing in the United States has risen faster than **the cost of / that of** food, transportation, or health care.
8. The cost of living in Tokyo is higher than **the cost of living in / that of living in** Los Angeles.

### ACTIVITY 7, Vocabulary in Academic Writing, page 153

1. accurate
2. revealed
3. brief
4. intelligence
5. enhanced
6. Migration
7. exceed
8. author
9. gender
10. fees

### ACTIVITY 8, Review Quiz, page 154

1. c
2. a
3. b
4. c
5. d
6. People can conserve water indoors by taking shorter showers, **turning off** the faucet while brushing their teeth, and fixing leaks in the plumbing. To save water outdoors, people with gardens are encouraged to replace grass lawns with low-water plants and avoid over-watering. (The phrase *turn off* should be *turning off* to be parallel with *taking* and *fixing*.)
7. Eating more fruits and vegetables, exercising regularly, and maintaining close personal relationships are three steps that can lower the risk of developing cancer, heart disease, or **depression**. (The phrase *becoming depressed* should be *depression* to be parallel with *cancer* and *heart disease*.)



8. Children who are exposed to reading at a young age develop essential skills that help prepare them for school and for learning. Among other abilities, they learn how to recognize cause and effect, **identify** feelings, and make judgments based on the behavior of characters in stories. (*identifying* should be *identify* to be parallel with *recognize* and *make*)

### **ACTIVITY 9, Building Greater Sentences, page 155**

*Answers may vary.*

1. A zebra's stripes help it to keep cool, avoid insect bites, and hide from predators such as lions.
2. In 2024, the Summer Olympics will be in (either) Europe or North America.
3. Alexander Hamilton was the first United States Secretary of the Treasury and the founder of the Federalist Party, which was the first democratic political party in the world.

### **ACTIVITY 10, Steps to Composing, page 156**

For long-distance flights, nearly all airlines these days offer three levels of service: Economy Class, Business Class, and First Class. These levels differ both in price and in comfort. As most tourists know, Economy Class, which is also known as Coach Class, is the cheapest but also the least comfortable class of service. Seats are narrow and legroom is tight. On many airlines passengers must pay extra to reserve a specific seat or check an extra bag. One solution is to pay five times more and fly Business Class. In Business Class, the seats are wider and there is more legroom. The food and the service are superior. If these luxuries are not enough, wealthy travelers can choose to fly First Class, where they can enjoy private suites, gourmet food, showers, and even massages. This level of service is expensive, however. A ticket in First Class can cost twice as much as a ticket in Business Class and up to twenty times as much as a ticket in Economy Class.

### **ACTIVITY 11, Original Writing, page 157**

*Answers will vary.*

## **UNIT 12**

### **What Do You Know?, page 159**

<sup>6</sup>Children who are still ~~taken~~ **taking** naps during the day may sleep better without them. (Children take naps, so the active voice should be used.)

<sup>7</sup>Headaches can also occur when young children are not fed at regular intervals or are not ~~gave~~ **given** enough water to drink. (Someone gives children water to drink, so children receive the action and the passive voice should be used.)

### **ACTIVITY 1, page 161**

1. have not been uncovered
2. should be seen
3. have been diagnosed
4. were found
5. are given
6. were not discovered; were found; were blown
7. have to be completed
8. can be observed

### **ACTIVITY 2, page 163**

1. was . . . launched
2. were not given
3. has been advised; may have been
4. is introduced; is debated
5. were first invented; is thought
6. were made
7. be told
8. are dropped

### **ACTIVITY 3, page 163**

1. T (awarded); Juan Manuel Santos of Colombia was awarded the Nobel Peace Prize in 2016.
2. T (burned); Areas of open land were burned by Native Americans to protect crops from wild animals.
3. T(enjoy); Organized sports programs are enjoyed by many children in the United States.
4. I (are occurring)
5. T (reported); The results of the elections were reported inaccurately at first by some online news outlets.
6. T (speak); Arabic is spoken as a primary language in 25 different countries.

### **ACTIVITY 4, Common Error 12.1, page 164**

1. In 2015, more than 15,000 drones **were** sold every month in the United States.
2. Many people think that consultants **are** / **have been** paid more than employees, but this is not always true.
3. More children **have been** left alone at home after school in the last decade because their parents have been busy working.
4. Neuroscientists think that some Alzheimer's patients' memories can **be** retrieved with a specific type of brain stimulation.
5. Many mountainous areas have search and rescue teams that **are** used to help hikers who get lost or hurt.

6. Engineers **are paid** higher salaries than education professionals such as teachers or school counselors.
7. Children who **are / have been** praised at school often perform better than children who **are / have been** criticized.
8. For years, thousands of young people have arrived in Los Angeles every year with hopes to become actors, but very few **have been / were** given the opportunities they need to succeed.
9. Artificial food coloring **has been / is** added to farmed salmon to make it look like freshwater salmon.
10. House plants often die either because they **are** not watered enough or they are overwatered.

**ACTIVITY 5, Common Error 12.2, page 165**

1. are carried
2. is transformed
3. can be lost
4. are being destroyed; may be gone
5. are formed
6. is known
7. was not invented
8. has been given

**ACTIVITY 6, Common Error 12.3, page 166**

1. was seen; was performed; gave; talked; was
2. can be found; study; grow; cannot be grown; has been successfully used; hope
3. has collected; is estimated; formed; was thrown; was picked up; have tried
4. shows; can improve; was done; were collected; participated; did not participate

**ACTIVITY 7, Vocabulary in Academic Writing, page 167**

1. is known / was reported
2. can be used
3. is needed
4. were conducted
5. were asked
6. were found
7. was made
8. are based
9. can be seen
10. was reported

**ACTIVITY 8, Review Quiz, page 168**

1. c

2. a
3. b
4. a
5. d
6. Many people think the desert is always brown, but the flowers that are seen in the desert after even just a very short rain shower **often change** the landscape into a beautiful rainbow of colors. (*Are changed* should be *change* because passive is not needed. The flowers are doing the action.)
7. For those who want to try home remedies, herbalists suggest that peppermint oil be **used** instead of over-the-counter medications to soothe a sore throat. (*Use* should be *used* because it is in the passive voice.)
8. All dogs enjoy going for walks in parks and on beaches, especially where leashes **are not required**. (*Are not require* should be *are not required* because it is the passive, and it needs the past participle.)

### ACTIVITY 9, Building Greater Sentences, page 169

*Answers may vary.*

1. Human sleep patterns are regulated by exposure to light, which is recognized by the part of the brain that tells people it is time to be awake.
2. A new, environmentally friendly material that is made from mushrooms is being used to make clothes which can be recycled and reused.
3. A healthy environment is necessary and should be protected by every country in the world.

### ACTIVITY 10, Steps to Composing, page 170

Apologizing can be a difficult thing to do effectively. According to recent research, an effective apology needs to contain various elements; however, there are two elements that are considered more important than all the others. First, for an apology to be effective, it should include an admission of responsibility. Some people apologize with an excuse for their action, saying for example, “I’m sorry, but I was tired,” or “I’m sorry, but I didn’t realize you would be bothered by . . .” In these apologies, no blame or responsibility is communicated. What is heard is only an excuse or justification. This type of apology can make the offended person even more upset or angry. Second, another element that should be included in an effective apology is an offer to fix the situation. This shows that the apologizer has thought a lot about both the offensive behavior and the offended person. One common element of an apology that is not very helpful at all is to ask for forgiveness, so that part can be omitted.

### ACTIVITY 11, Original Writing, page 171

*Answers will vary.*

## UNIT 13

### What Do You Know?, page 173

<sup>3</sup>Because governments—national, regional, and local—can help the effort by passing laws ~~for~~ **to** protect the wildlife and their habitats, organizations turn to them first. (An infinitive of purpose, *(in order) to* + verb, is needed, so we use *to protect*.)

<sup>9</sup>~~Work~~ **Working** together is key if these animals are going to survive. (Gerunds are often used as subjects and use the verb + *-ing* form.)

### ACTIVITY 1, page 175

1. X; Studying
2. X; to leave
3. X; to protect
4. C
5. X; Having
6. C
7. X; not to vote
8. C

### ACTIVITY 2, page 177

1. Burning
2. to become
3. to determine
4. learning
5. brainstorming / to brainstorm
6. going
7. to succeed
8. reviewing
9. to choose
10. Saving

### ACTIVITY 3, Common Error 13.1, page 178

1. to pay
2. to increase; to reduce
3. finding
4. catching
5. to improve
6. taking
7. to give

8. anticipating

**ACTIVITY 4, Common Error 13.2, page 179**

1. used to work **used to working**
2. drop out **dropping out**
3. looked forward to retire **looked forward to retiring**
4. interested in learn **interested in learning**
5. put off to do **put off doing**
6. insist on to know **insist on knowing**
7. by master **by mastering**
8. responsible for enforce **responsible for enforcing**

**ACTIVITY 5, Common Error 13.3, pages 179–180**

1. X; Learn **Learning** about a foreign country's customs can help visitors avoid insulting remarks or behavior when traveling.
2. C; When businesses hire new workers, explaining the company's culture to them is one of several important steps to include during training.
3. C; Developing vaccines faster than the rate at which viruses change is the focus of numerous research grants today.
4. X; Use **Using** technology to improve student comprehension of complex subjects is one of many methods instructors employ in the classroom.
5. X; Because it requires no special equipment, walk **walking** for 30 minutes a day is one of the easiest ways to lose weight.
6. C; Checking the locks on doors more than once before going to bed is a common behavior, but it can interfere with daily life for people with obsessive-compulsive disorder.

**ACTIVITY 6, Common Error 13.5, page 180**

1. X; For many immigrants, **it** is a difficult decision to leave their home country.
2. C
3. X; Taking vitamins ~~are~~ **is** an important part of many people's daily routine.
4. X; Despite what some employees may think, **it** is wrong to take work supplies home for personal use.
5. C
6. C
7. X; For residents who live along the coast, **it** is important to be aware of beach erosion and rising sea levels.
8. C

**ACTIVITY 7, Vocabulary in Academic Writing, page 181**

1. to participate / to be

2. having
3. making
4. to find / to learn
5. working / being / participating
6. learning / knowing / finding
7. developing / making
8. to be
9. using
10. to know / to learn

### ACTIVITY 8, Review Quiz, page 182

1. d
2. c
3. a
4. b
5. b
6. Taking a public speaking course during the first semester of college improves listening skills, provides practice in **organizing** one's thoughts, and builds self-confidence. (*Organize* should be *organizing* because it follows the preposition *in*, which requires a gerund.)
7. It is never a good idea **to** choose a career based solely on the money one can earn. Similarly, one should avoid making a career decision before exploring several options. (*Chose* should be *to chose* because the infinitive is used after the verb *be*.)
8. Although **staying** up all night to watch movies is often typical of college students, this lifestyle tends to change once students begin working full time. (*Stay* should be *staying* because the subject of the clause should be a gerund.)

### ACTIVITY 9, Building Greater Sentences, page 183

*Answers may vary.*

1. Athletes stay physically fit by exercising every day and following a healthy diet.
2. A recent survey indicates that employers prefer to hire college graduates who think independently and have good computer skills.
3. It is possible to save the environment and save money by making small lifestyle changes.

### ACTIVITY 10, Steps to Composing, pages 184–185

Trying to handle both personal and professional responsibilities is often an overwhelming task. However, there are three simple steps people can take to put more time into their day. The first step is to set realistic goals. For example, it is not realistic to have 15 items on a daily to-do list. Instead, list the top three or four work items that need to be finished before the day is over. Check off each item as it is accomplished. The second step requires scheduling all of one's personal activities, including exercise. This means writing down what time one will go to

the gym, take a walk, or practice yoga. Doing this ensures some private time will be available every day. Finally, the last step is to avoid people who waste one's time. (For example, instead of standing in the parking lot talking to a co-worker about the boss for 20 minutes, leave the office and head directly for home. There is no easy solution to finding all the time one wants or needs, but taking these three steps will lead one in the right direction.

### **ACTIVITY 11, Original Writing, page 185**

*Answers will vary.*

## **UNIT 14**

### **What Do You Know?, page 187**

<sup>4</sup>He wondered what ~~was the key~~ **the key was** for, so he walked from room to room in his grandparents' house, searching for a lock the key would open. (Use statement word order in question-word noun clauses.)

<sup>9</sup>Whether he ever told anyone **what** was in the box also remains a mystery to this day. (Noun clauses made from questions begin with a question word.)

### **ACTIVITY 1, page 189**

1. In a recent nationwide poll, respondents stated whether they felt optimistic or pessimistic about a number of economic issues.
2. What defines a person's success varies from individual to individual.
3. Economic theory experts believe that increasing interest rates results in decreased consumer spending.
4. People commonly ask themselves if their work makes them happy.
5. Career counselors advise that who you know will help you find a job.
6. It is not surprising that so many people live to be 100 or older these days.
7. It is a fact that the media influences teens in several ways, including their hair and clothing styles.
8. Many newly arrived immigrants do not know where they can find help with education and employment needs.
9. Advertisers who claim that their products can do everything from cure the common cold to promote excessive weight loss are often scrutinized by the Federal Trade Commission.
10. Studies show that small business owners who keep a list of priorities are more organized and successful than those who do not.

### **ACTIVITY 2, page 191**

1. why
2. that



3. what
4. that
5. Whoever
6. the fact that
7. that
8. which
9. whether
10. Why

### ACTIVITY 3, Common Error 14.1, page 192

1. X; A common concern among older citizens is how long ~~will they~~ **they will** be able to live alone.
2. X; Due to conflicting results from different studies, doctors and nutritionists continue the debate over whether ~~are eggs~~ **eggs are** good or bad for one's health.
3. C
4. X; Reading fiction allows the reader to discover ~~what is the author's message~~ **what the author's message is**.
5. C
6. X; Linguistic anthropologists continue to explore when ~~did communication begin~~ **communication began** to evolve into language.
7. X; As the number of electric cars increases, whether ~~will noise pollution decrease~~ **noise pollution will decrease** remains to be seen.
10. X; In the scientific method, formulating a hypothesis means stating what ~~will be the results of the experiment~~ **the results of the experiment will be**.

### ACTIVITY 4, Common Error 14.2, page 193

1. X; The fact that today's family structures are complex **makes** the term *nuclear family* inadequate and outdated.
2. C; What makes people change their thinking depends on the method used to present an opposing view.
3. X; How colleges accommodate students with learning disabilities **ranges** from providing text-to-speech software to assigning classroom note takers.
4. C; The fact that people abandon their pets causes animal shelters to become overcrowded.
5. C; Whether capital punishment prevents crime has been the subject of many debates.
6. X; How students prepare for exams **varies** from one individual to another.

### ACTIVITY 5, Common Error 14.3, pages 193–194

1. Writers must clearly state **what** the main point of the research paper is in the thesis statement.
2. Schools can be classified according to **how** they implement their curriculum and measure student performance.

3. Geoscientists are interested in **the idea that** analyzing rock and soil samples may lead to predicting and even preventing future natural disasters.
4. One of the powers of the Supreme Court is to decide **whether** a law is constitutional or not.
5. Although scientists know the Sun will die, it is impossible to know exactly **when** it will happen.
6. Salespeople do not always tell customers about **the fact that** there are problems with the product.

#### **ACTIVITY 6, Common Error 14.4. page 194**

1. How hard work and passion **lead** to success is the subject of numerous research studies.
2. The short story “The Yellow Wallpaper” depicts what **a woman** experiences during a mental breakdown.
3. People like to believe that **talent** makes entrepreneurs successful rather than hard work.
4. Researchers are unsure why fewer people **are** at risk for developing dementia today than 35 years ago, but they continue to predict increases.
5. From the beginning of the Golden Gate Bridge project in 1919, it was evident that **construction** would be an engineering challenge.
6. An increasingly common question asked of lawmakers about payday loans is if **they** should be illegal.
7. Whether using visual imagery before a competition **has** a positive result in an athlete’s performance has been the focus of several psychological studies
8. Investigators stated that the cause of ships and planes disappearing in the Bermuda Triangle **remains** unanswered to this day.

#### **ACTIVITY 7, Vocabulary in Academic Writing, page 195**

1. is
2. remember / report
3. will show
4. prefer
5. suggest / show
6. find
7. feel
8. do
9. served
10. report

#### **ACTIVITY 8, Review Quiz, page 196**

1. b
2. d
3. b

4. a

5. d

6. A group of college advisors is planning to study **how** setting goals affects students' study habits and whether setting specific goals results in a more successful semester. (*That* should be *how* because the meaning implied in the clause is "in what way.")

7. In a recent study of runners and their heart health, researchers asked participants to record how often they ran, how far **they went**, and what time of day they exercised. (*Did they go* should be *they went* because the word order in the clause is subject + verb, not question order.)

8. Researchers report that whether people believe a politician's statements often **depends on** whether they support that candidate. (*Depend on* should be *depends on* because the noun clause is used as the subject, so it requires a singular verb.)

### **ACTIVITY 9, Building Greater Sentences, page 197**

*Answers may vary.*

1. Aristotle observed that having a sense of purpose is closely connected to a feeling of happiness.

2. How exercise helps prevent certain types of diseases but does not help with weight loss is the topic of a recent health study.

3. In 1954, sports experts doubted if anyone could beat the four-minute mile record.

### **ACTIVITY 10, Steps to Composing, pages 198–199**

People who do not get enough sleep are said to be *sleep-deprived*. It is easy to identify people who are sleep-deprived by the way they look and the way they behave. First of all, they always look tired. For example, their eyes are usually red or bloodshot, and they often have dark circles under their eyes. Moreover, instead of the corners of their mouths turning up, the corners tend to droop, which makes them look sad. People who lack sleep are also easy to recognize by their impatient behavior. While waiting in line, they may tap their feet and mutter, "Come on. I don't have all day." People who honk their car horns at the drivers in front of them as soon as the traffic light turns green are likely suffering from insufficient sleep. In meetings, these people tap their pencils on the table and sigh heavily every few minutes. Their struggle to stay awake is obvious. They often yawn in the middle of important discussions and put their heads down on their desks when they think no one is looking. They are rarely without a cup of coffee in one hand and a sugary snack in the other. The coffee keeps them awake, while the sugary snack gives them energy. These characteristics of people with chronic sleep deficiencies all point to one thing: people do not look or act their best when they do not get enough sleep.

### **ACTIVITY 11, Original Writing, page 199**

*Answers will vary.*

## UNIT 15

### What Do You Know?, page 201

<sup>6</sup>~~However~~ **For example**, a deciduous forest contains trees that lose their leaves in the fall and grow new ones in the spring. (*However* is a transition used to introduce contrasting information. This sentence introduces an example, so *for example* is used.)

<sup>9</sup>These coniferous trees are green all year round, ~~or~~ **so** they are sometimes called *evergreen* trees. (We use the connector *so* to show something as a result.)

### ACTIVITY 1, page 203

- SC CC
1. Before the mid-1800s, people colored their hair with natural dyes, but an English chemist  
SC  
changed the world of hair color when he created a permanent dye using coal tar.
- T
2. Many consumers mistakenly believe that all organically grown food is the same; however,  
SC  
there are differences. Some foods are considered organic, while others are considered 100 percent organic.
- SC
3. In the past, a subculture might include hippies, while today, a subculture might include  
T  
gamers, people who play interactive video games, for example.
- SC
4. Because schools have begun to incorporate technology into classroom learning, children are  
CC  
becoming independent learners, learning at their own pace, and developing real-world skills.
- CC T
5. During a jury trial, attorneys for both sides present evidence and call witnesses to testify. Next,  
CC CC T  
the jury considers the evidence and reaches a verdict of guilty or not guilty. Finally, depending  
CC  
on the verdict, the judge either releases or sentences the defendant.
- CC
6. A recent study showed that consumers enjoyed the ease and convenience of online shopping,  
CC  
but it also showed that they hated the pop-up ads that cluttered their screens.
- SC

7. Although some people might consider Plato the father of Western philosophy, there are several reasons why Socrates should have this title.

CC

8. In the 1800s, the east coast of the United States began to get crowded, so many pioneers

CC

began migrating west in order to buy land, find better jobs, or search for gold.

### **ACTIVITY 2, page 204**

1. C
2. X; Logging of rainforests continues; although governments are aware of how deforestation affects the environment.
3. X; Research shows an increase in the number of colleges encouraging the use of e-books;; however, many students still prefer to read hardcover textbooks.
4. X; Before becoming President of the United States-, Theodore Roosevelt held numerous political positions, including that of governor of New York.
5. X; Some very ill patients enroll in clinical trials; because they want to contribute to science.
6. X; Students who cram for tests are often able to remember enough to pass them. Then; they forget what they studied because they have not really learned it.
7. C
8. X; Children growing up 50 years ago commonly played with toys and read books. In contrast, many of today's children play video games and read stories on tablets or e-readers.

### **ACTIVITY 3, page 206**

1. For example
2. but
3. so
4. When
5. because
6. In addition

### **ACTIVITY 4, Common Error 15.1, page 207**

1. Citizens participate in local government by electing city officials. Furthermore, citizens ~~also~~ have the opportunity to share their views and opinions at city council meetings.

OR

Citizens participate in local government by electing city officials. ~~Furthermore, Citizens~~ **Citizens** also have the opportunity to share their views and opinions at city council meetings.

2. While sugar-free foods may help people lose weight, ~~but~~ they may also lead people to eat more because they think they have “saved” calories.

OR

~~While Sugar-free~~ **Sugar-free** foods may help people lose weight, but they may also lead people to eat more because they think they have “saved” calories.

3. Although many may think *Hamlet* is Shakespeare’s most popular play, ~~yet~~ *Romeo and Juliet* is, in fact, the most popular one.

OR

~~Although Many~~ **Many** may think *Hamlet* is Shakespeare’s most popular play, yet *Romeo and Juliet* is, in fact, the most popular one.

4. Because the honeybee population has steadily declined and bee colonies have collapsed, ~~so~~ the U.S. Department of Agriculture has taken steps to identify the causes and find a solution.

OR

~~Because The~~ **The** honeybee population has steadily declined and bee colonies have collapsed, so the U.S. Department of Agriculture has taken steps to identify the causes and find a solution.

5. Although researchers have not yet found a cure for HIV, ~~but~~ they are hopeful they will be close to a cure within the next five years.

OR

~~Although researchers~~ **Researchers** have not yet found a cure for HIV, but they are hopeful they will be close to a cure within the next five years.

6. Because melanoma is one of the most dangerous types of skin cancer, ~~so~~ people need to avoid the sun during the hottest time of the day, wear sunscreen, and see a dermatologist every year.

OR

~~Because melanoma~~ **Melanoma** is one of the most dangerous types of skin cancer, so people need to avoid the sun during the hottest time of the day, wear sunscreen, and see a dermatologist every year.

7. Although researchers have identified the genes that allow lizards to regrow their tails, ~~but~~ they are in the beginning stages of applying their knowledge in ways to help people.

OR

~~Although researchers~~ **Researchers** have identified the genes that allow lizards to regrow their tails, but they are in the beginning stages of applying their knowledge in ways to help people.

8. The decision to start a business is not an easy one to make. Consequently, to make the right decision, an entrepreneur must, ~~therefore~~, make the commitment to raise capital, set goals, and work hard.

OR

The decision to start a business is not an easy one to make. ~~Consequently, to~~ **To** make the right decision, an entrepreneur must, therefore, make the commitment to raise capital, set goals, and work hard.

#### **ACTIVITY 5, Common Error 15.2, page 208**

1. X; ~~When~~ **While / Although / Even though** robotic surgery offers several advantages to the patient and the surgeon, the cost of the system is extremely expensive.

2. X; Isaac Newton was not hit on the head by a falling apple, ~~and~~ **but** / **yet** it was a falling apple that led him to develop his law of gravity and later write about this principle.
3. X; Many students choose or change their career path ~~but~~ **after** they take college classes. A professor may inspire them, for example, to consider a new field.
4. X; An example of self-motivating behavior is making New Year's resolutions. People often resolve to exercise every day ~~although~~ **because** / **as** / **since** they want to lose weight.
5. C; People enroll in college for a variety of reasons. Some enroll because they enjoy learning, while others enroll to earn a degree and begin a career.
6. X; If the president of the United States is unable to perform the duties of the office, the line of succession begins with the vice president, then moves to the Speaker of the House of Representatives, is followed by the president pro tempore of the Senate, and **last** / **finally** ~~next~~, is followed by cabinet members.
7. X; Type 1 diabetes cannot be prevented and often starts in early childhood; ~~in addition~~ **in contrast** / **however**, type 2 diabetes can be prevented by eating healthy food ~~or~~ and by exercising.
8. C; There are two factors that contribute to changes in an ecosystem. First, there are direct factors. For example, climate change and pollution are direct factors.

#### **ACTIVITY 6, Common Error 15.3, page 209**

1. but / yet
2. after / when / because
3. However
4. after / when
5. For example / For instance
6. In contrast / However
7. Because / As / Since
8. and / but / yet

#### **ACTIVITY 7, Common Error 15.4, page 210**

1. Although Pierre-Auguste Renoir, the French impressionist painter, had severe arthritis, he continued to paint until his death in 1919.
2. In 1988, the United Nations peacekeepers received the Nobel Peace Prize for their efforts; as a result, they gained the trust of many nations.

OR

- In 1988, the United Nations peacekeepers received the Nobel Peace Prize for their efforts. **As** a result, they gained the trust of many nations.
3. Classroom teachers may take one of two approaches in the classroom. One is to encourage cooperative behavior, in which students work together to meet a goal or objective; in contrast, encouraging competitive behavior is an approach in which students work alone and may even compete against each other for grades.

OR

Classroom teachers may take one of two approaches in the classroom. One is to encourage cooperative behavior, in which students work together to meet a goal or objective. **In** contrast, encouraging competitive behavior is an approach in which students work alone and may even compete against each other for grades.

4. While foreign particles in the atmosphere are not necessary for a blue sky, they are needed for the deep red sunrises and sunsets people enjoy.

5. Critical thinkers distinguish fact from opinion. For example, “Ottawa is the capital of Canada” is a fact, but “Ottawa is the best place to go on vacation” is an opinion.

6. **Although many** businesses offer health benefits to their employees, some large employers have reduced their employees’ hours to avoid having to offer benefits.

7. Earth and Mars are two very different planets, but they still share some similarities. Both planets have days that are about 24 hours long; in addition, both planets have seasons and similar axis tilts.

OR

Earth and Mars are two very different planets, but they still share some similarities. Both planets have days that are about 24 hours long. **In** addition, both planets have seasons and similar axis tilts.

8. Each country has a favorite national or regional dish, one which is made with local ingredients and which reflects the country’s culture. For example, Hungary is known for its goulash, Spain for its paella, and Saudi Arabia for its Kabsa.

#### **ACTIVITY 8, Vocabulary in Academic Writing, page 211**

1. recognize
2. make
3. should
4. take
5. are
6. have
7. stated
8. suggests
9. can
10. does

#### **ACTIVITY 9, Review Quiz, page 212**

1. d
2. a
3. c
4. b
5. b



6. Because they commonly live among the people while they are studying them, anthropologists can observe people's habits and traits. **In addition**, they can identify which habits are common and which habits are not. (*However* needs to be *In addition* because the sentence that follows adds information to the first sentence; it does not introduce a contrast.)

7. Working for a relief organization offers the opportunity to save lives and change the future, **but / yet** it also requires patience and physical stamina. As a result, before applying for or accepting a position with a relief organization, preparation is essential. (*Because* needs to be *but* or *yet* because the clause introduces a contrast, not a reason.)

8. Consumers can order most things online, including, for example, food or prescriptions. **Although / Even though / While** ordering prescriptions online may save time and money, there are risks. When an online pharmacy has no contact information, it is probably unreliable. (*Therefore*, needs to be *Although*, *Even though*, or *While* because the sentence introduces a contrast, not a result.)

### **ACTIVITY 10, Building Greater Sentences, page 213**

*Answers may vary.*

1. Introverts need to be alone to recover their energy; in contrast, extroverts need the stimulation of being around other people in order to feel energized.

2. Although globalization has made people more aware of other cultures, it is unlikely that all cultures will merge into one world culture.

3. Exams may contain several different types of instructions, so it is important to read them carefully.

### **ACTIVITY 11, Steps to Composing, pages 214–215**

Learning a foreign language today differs from learning one 25 years ago. One noticeable difference is in the methods. Today, students practice all four skills: listening, speaking, reading, and writing. In addition, they work collaboratively with partners to share and compare answers, and they have small group discussions. In the past, however, students spent much of their class time studying grammar. They worked alone and waited for their instructor to give them the answers. Their speaking practice focused on repeating grammar drills or memorized conversations. Another difference in learning a foreign language is in the materials. For example, classroom materials include books with reading, writing, speaking, and listening activities. Today, technology allows students to watch and listen to videos and then discuss them. In contrast, 25 years ago, classroom materials were grammar books filled with drills but no reading or writing activities. Learning a foreign language today is much more interactive and engaging for both the instructor and the student.

### **ACTIVITY 12, Original Writing, page 215**

*Answers will vary.*