

S U B J E C T

Link

Curriculum Integration Reading Program



W O R K B O O K

Vocabulary Practice

A Choose the correct words for the definitions.

hatch	antennae	backbone	inject
starve	sticky	bite	saliva

- | <i>Word</i> | <i>Definition</i> |
|--------------------------------|---|
| 1. <u> bite </u> | v. to attack or harm with one's mouth |
| 2. <u> saliva </u> | n. the liquid produced in the mouth of a person or animal |
| 3. <u> hatch </u> | v. to come out of an egg |
| 4. <u> starve </u> | v. to die from not having enough food |
| 5. <u> antennae </u> | n. (pl.) the two long, thin parts on an insect's head that it uses to feel things |
| 6. <u> backbone </u> | n. the line of bones down the middle of the back |
| 7. <u> sticky </u> | adj. easily attaching to other things |
| 8. <u> inject </u> | v. to force something into a person or object |

B Choose the best answer to complete each sentence.

- A(n) _____ is an environment and all the animals and plants that live in it.
a. earth ecosystem c. neighborhood
- _____ is the fine powder made by a plant.
 Pollen b. Juice c. Root
- If part of your body _____, you get a feeling that you want to scratch it.
 itches b. coughs c. breaks
- If you _____ something, then you remove it or throw it away.
a. get on with b. get out of get rid of

Sentence Practice

C Unscramble the sentences.

- (because / they need / to lay eggs / They bite you / your blood / .)
They bite you because they need your blood to lay eggs.
- (animals / backbones / don't have / Insects / like / some other / .)
Insects don't have backbones like some other animals.
- (ants and flies, / can / How / some insects, / crawl up walls / such as / ?)
How can some insects, such as ants and flies, crawl up walls?
- (and they / are divided / have / into three sections, / six legs / Their bodies / .)
Their bodies are divided into three sections, and they have six legs.
- (them stick / between their claws / Some have / that help / to the walls or ceilings / special, sticky pads / .)
Some have special, sticky pads between their claws that help them stick to the walls or ceilings.
- (animal species / about 90% of / represents / that exist on the earth / the total number of / This number / .)
This number represents about 90% of the total number of animal species that exist on the earth.

More Reading Comprehension

D Choose the correct number for the sentence below.

This keeps the earth clean.

Q: What roles do insects play in ecosystems?

A: They help plants spread their pollen and seeds. (1) They also get rid of the bodies of dead animals by eating them. (2) They are also an important part of the diets of other animals. (3) If insects didn't exist, there wouldn't be any plants, the earth would be covered in waste, and many animals would starve to death. (4)



Cicadas

Vocabulary Practice

A Choose the correct words for the definitions.

dig	lay	shed	emerge
burrow	protein	thick	buzz

- | | Word | Definition |
|----|----------------|--|
| 1. | <u>emerge</u> | v. to come out of something |
| 2. | <u>dig</u> | v. to make a hole in the ground |
| 3. | <u>lay</u> | v. to make an egg come out of the body |
| 4. | <u>thick</u> | adj. having a large distance between both sides |
| 5. | <u>protein</u> | n. a substance in food, such as meat and eggs, that helps build muscle |
| 6. | <u>burrow</u> | n. a hole or tunnel that an animal or insect lives in |
| 7. | <u>buzz</u> | v. to make a low, steady sound, like the sound of an insect |
| 8. | <u>shed</u> | v. to remove something naturally, such as skin |

B Choose the best answer to complete each sentence.

- The _____ is the outer layer of a tree.
 a. bark b. flower c. branch
- If you _____ something, then you make certain that it happens.
a. fill b. ensure c. replace
- The _____ is the number of people that live in a place.
a. species b. survival c. population
- If something is _____, then it is fully grown and developed.
 a. adult b. youth c. selfish

Sentence Practice

C Unscramble the sentences.

- (all the buzzing / This is / and clicking / we hear / when / .)
This is when we hear all the buzzing and clicking.
- (of their lives / a small part / Cicadas / in trees / only spend / .)
Cicadas only spend a small part of their lives in trees.
- (dig back up / nymphs / of the earth / The surviving / to the surface / .)
The surviving nymphs dig back up to the surface of the earth.
- (cicadas are / No matter / of nature / the reason is, / truly a wonder / what / .)
No matter what the reason is, cicadas are truly a wonder of nature.
- (soon after mating, / their eggs / die / females die / Male cicadas / after they lay / while / .)
Male cicadas die soon after mating, while females die after they lay their eggs.
- (even if / to ensure that / Cicadas lay / many nymphs get eaten / so many eggs / their population remains stable / .)
Cicadas lay so many eggs to ensure that their population remains stable even if many nymphs get eaten.

More Reading Comprehension

D Choose the correct number for the sentence below.

Small and wingless, they are known as nymphs.

Just before female cicadas die, they lay their eggs in the bark of branches. One cicada lays from 400 to 6,000 eggs. (1) Six to ten weeks later, the eggs hatch. (2) The baby cicadas drop to the ground and dig burrows deep into the soil. (3) Depending on their species, nymphs spend from 1 to 17 years in these burrows, sucking liquid from tree roots. (4)



The Butterfly Effect

Vocabulary Practice

A Choose the correct words for the definitions.

flap	assassination	opposed to	laboratory
coast	tragedy	mold	consequence

- | | <i>Word</i> | <i>Definition</i> |
|----|----------------------|--|
| 1. | <u>tragedy</u> | <i>n.</i> a terrible event |
| 2. | <u>flap</u> | <i>v.</i> to move wings up and down |
| 3. | <u>coast</u> | <i>n.</i> the land next to the sea |
| 4. | <u>opposed to</u> | <i>adj.</i> against or not agreeing with something |
| 5. | <u>consequence</u> | <i>n.</i> the result of an action or decision |
| 6. | <u>assassination</u> | <i>n.</i> the murder of an important person |
| 7. | <u>laboratory</u> | <i>n.</i> the room where scientists do experiments |
| 8. | <u>mold</u> | <i>n.</i> a soft, fuzzy substance that grows on rotting things |

B Choose the best answer to complete each sentence.

- A _____ is an idea that has not yet been proven to be true.
 a. speech theory c. fact
- If you _____ something, then you think it will happen.
 a. grow b. forget expect
- A _____ is a group of people that controls or leads a country.
 a. king b. choice government
- If you do something _____, then you plan to do it.
 a. right away on purpose c. by mistake

Sentence Practice

C Unscramble the sentences.

- (tragedy / doesn't always / The butterfly effect / lead to / .)
The butterfly effect doesn't always lead to tragedy.
- (found that / had killed / He / some kind of mold / the bacteria / .)
He found that some kind of mold had killed the bacteria.
- (hits / A few days later, / a huge hurricane / of Texas / the coast / .)
A few days later, a huge hurricane hits the coast of Texas.
- (has saved / He used / millions of lives / which / this mold / to create penicillin, / .)
He used this mold to create penicillin, which has saved millions of lives.
- (everything / has consequences / remind us that / the butterfly effect / These examples of / we do / .)
These examples of the butterfly effect remind us that everything we do has consequences.
- (It's a concept / often wrong / to explain / weather forecasts are / that was first used / why / .)
It's a concept that was first used to explain why weather forecasts are often wrong.

More Reading Comprehension

D Choose the correct number for the sentence below.

In 1914, his driver made a wrong turn onto a backstreet.

Throughout history, there have been many examples of the butterfly effect. (1) Take the case of the assassination of Franz Ferdinand. (2) He was expected to become the king of Austria-Hungary. (3) There, he was shot and killed by a man opposed to the Austro-Hungarian government. (4) This single killing caused a series of events that eventually led to the start of the First World War.



Eating Insects

Vocabulary Practice

A Choose the correct words for the definitions.

nutrient	disgusting	billion	decrease
require	estimate	available	report

- | | Word | Definition |
|----|-------------------|---|
| 1. | <u>billion</u> | <i>n.</i> one thousand million |
| 2. | <u>available</u> | <i>adj.</i> able to be used |
| 3. | <u>nutrient</u> | <i>n.</i> a substance that living things need to live and grow |
| 4. | <u>estimate</u> | <i>v.</i> to make a guess about something by using facts or information |
| 5. | <u>decrease</u> | <i>v.</i> to become smaller in number or amount |
| 6. | <u>disgusting</u> | <i>adj.</i> extremely unpleasant |
| 7. | <u>report</u> | <i>n.</i> an official document that describes an event or situation |
| 8. | <u>require</u> | <i>v.</i> to need something |

B Choose the best answer to complete each sentence.

- _____ is the ground where plants grow.
 a. Soil b. Sunlight c. Energy
- If something has _____, then it has a need for food.
a. trend b. hunger c. diet
- You _____ something by using up all of it.
 a. run out of b. back away from c. look forward to
- When you _____ to somewhere, you go back to somewhere you were before.
a. travel b. return c. move

Sentence Practice

C Unscramble the sentences.

- (ant eggs / are considered / fried in butter / delicious / In Mexico, / .)
In Mexico, ant eggs fried in butter are considered delicious.
- (but also / are / good for / Insects / not only abundant / your health / .)
Insects are not only abundant but also good for your health.
- (than beef does / actually contain / Locusts / more iron / .)
Locusts actually contain more iron than beef does.
- (are already / across the world / many people / being eaten by / Insects / .)
Insects are already being eaten by many people across the world.
- (as other animals / as much / greenhouse gases too, / Insects / release / but not / .)
Insects release greenhouse gases too, but not as much as other animals.
- (to the soil / and dead bodies / They can break down / of other animals, / the waste / returning their nutrients / .)
They can break down the waste and dead bodies of other animals, returning their nutrients to the soil.

More Reading Comprehension

D Choose the correct number for the sentence below.

Meanwhile, the earth's population keeps growing.

Many people around the world don't have enough food to eat. (✓) It is estimated that it will reach nine billion by the year 2050. (2) Also, we are quickly running out of new land to use for farming and raising animals. (3) The number of fish in our oceans is also decreasing, because of pollution and overfishing. (4)



How Mountains Are Formed

Vocabulary Practice

A Choose the correct words for the definitions.

crash	crack	explosively	harden
erupt	enormous	ash	force

- | | Word | Definition |
|----|--------------------|---|
| 1. | <u>crash</u> | v. to hit something hard while moving |
| 2. | <u>harden</u> | v. to become firm over a period of time |
| 3. | <u>ash</u> | n. the powder that remains after something is burnt |
| 4. | <u>force</u> | v. to push something so that it moves |
| 5. | <u>enormous</u> | adj. very large in size or amount |
| 6. | <u>explosively</u> | adv. suddenly and violently |
| 7. | <u>erupt</u> | v. to explode and shoot hot material into the air |
| 8. | <u>crack</u> | n. a thin line where something has broken |

B Choose the best answer to complete each sentence.

- The _____ is the outer layer of the earth.
 a. atmosphere ✓ crust c. center
- If something has been _____, then it has been raised to a higher point.
 a. folded b. dropped ✓ uplifted
- When you _____, you walk a long distance for fun or exercise.
 a. flow b. dance ✓ hike
- You _____ something by coming to understand how it happens or works.
 ✓ figure out b. meet up c. ride on

Sentence Practice

C Unscramble the sentences.

- (as a result / activities / are formed / Mountains / of the earth's / .)
Mountains are formed as a result of the earth's activities.
- (blocks of / force / rock / upward / These cracks / or downward / .)
These cracks force blocks of rock upward or downward.
- (these big mountains / ever wondered / Have you / made / what / ?)
Have you ever wondered what made these big mountains?
- (when / crash together / formed / Mountains / are usually / the earth's plates / .)
Mountains are usually formed when the earth's plates crash together.
- (mountains are / No matter how / natural wonders / to enjoy / they were formed, / for us / .)
No matter how they were formed, mountains are natural wonders for us to enjoy.
- (with so much energy / crash together / that / forced up / they are / The plates / .)
The plates crash together with so much energy that they are forced up.

More Reading Comprehension

D Choose the correct number for the sentence below.

One example of this kind of mountain is Mt. Halla on Jeju-do, a Korean island.

Magma under the earth's surface can form mountains as well. (1) Magma is molten rock. It's liquid, so it flows through cracks. (2) When the magma finds its way to the surface, it erupts explosively as lava, rock, ash and volcanic gas. (3) As the lava cools and hardens, a "volcanic mountain" is created. (✓)



The Wall of Death

Vocabulary Practice

A Choose the correct words for the definitions.

twist	reach	unstable	route
freeze	steep	challenging	adventure

- | | Word | Definition |
|----|--------------------|---|
| 1. | <u>steep</u> | <i>adj.</i> going up or down at a very sharp angle |
| 2. | <u>reach</u> | <i>v.</i> to arrive at a place after traveling |
| 3. | <u>unstable</u> | <i>adj.</i> likely to change quickly or without warning |
| 4. | <u>twist</u> | <i>n.</i> a bend or curve in a road or river |
| 5. | <u>freeze</u> | <i>v.</i> to become extremely cold |
| 6. | <u>route</u> | <i>n.</i> a trail or path from one place to another |
| 7. | <u>challenging</u> | <i>adj.</i> difficult, often in a fun way |
| 8. | <u>adventure</u> | <i>n.</i> the taking of risks for excitement |

B Choose the best answer to complete each sentence.

- When you _____ something, you move yourself up to a higher part of it.
 a. climb b. catch c. measure
- You _____ by completing what you tried to do.
 a. succeed b. quit c. continue
- If something is _____, then it makes you feel afraid.
 a. silly b. scary c. boring
- When something _____, something happens.
 a. erupts b. develops c. occurs

Sentence Practice

C Unscramble the sentences.

- (after being caught / in snowstorms / have even frozen / Some / to death / .)
Some have even frozen to death after being caught in snowstorms.
- (65 people / have been killed / reach the top / More than / trying to / .)
More than 65 people have been killed trying to reach the top.
- (for years / have been trying / of the Eiger / People / to climb the north face / .)
People have been trying to climb the north face of the Eiger for years.
- (climbers have to / many twists and turns / so steep that / The wall is / go up / .)
The wall is so steep that climbers have to go up many twists and turns.
- (climbing the north face of / why / is so challenging / There are / three main reasons / the Eiger / .)
There are three main reasons why climbing the north face of the Eiger is so challenging.
- (the face / This makes / falling rocks / and can lead to / very unstable / .)
This makes the face very unstable and can lead to falling rocks.

More Reading Comprehension

D Choose the correct number for the sentence below.

The north face of the Eiger is the most famous of these routes.

The Eiger is a mountain in Switzerland. (1) It is 3,970 meters high, and there are several routes to climb up to the top. (2) It is called *Nordwand* in German, which simply means “north wall.” (3) However, it is nicknamed *Mordwand*, which means “death wall.” (4)



Sherpas

Vocabulary Practice

A Choose the correct words for the definitions.

worship	porter	condition	equipment
adapt	summit	hire	expert

Word

Definition

- hire v. to pay someone to do a particular job
- equipment n. the items or tools needed to do something
- porter n. a worker who carries bags or luggage
- worship v. to treat something or someone as a god
- condition n. the state in which a particular thing exists
- adapt v. to change in order to fit into a new situation or environment
- expert adj. having special skills or knowledge related to something
- summit n. the highest point of a mountain

B Choose the best answer to complete each sentence.

- You _____ something if you have it in common with other people.
 a. spin share c. take
- If something _____ something else, the two things then they are directly related.
 a. looks for b. falls over refers to
- When things _____ you to do something, they let you do it.
 allow b. fail c. possible
- If you make a _____ by doing something, you earn money by doing it.
 living b. top c. history

Sentence Practice

C Unscramble the sentences.

- (ever to / They / the first people / do so / were / .)
They were the first people ever to do so.
- (They / and harsh weather / to the high / had adapted / altitude conditions / .)
They had adapted to the high altitude conditions and harsh weather.
- (are famous / for providing / foreign / Sherpas / mountain climbers / support to / .)
Sherpas are famous for providing support to foreign mountain climbers.
- (and knew / expert climbers / They / the area / were / a lot about / .)
They were expert climbers and knew a lot about the area.
- (climb mountains / by helping tourists / Many Sherpas / still make their living / .)
Many Sherpas still make their living by helping tourists climb mountains.
- (hired by / the Himalayas / guides or porters / mountain climbers in / Nowadays, / usually refers to / the word "Sherpa" / .)
Nowadays, the word "Sherpa" usually refers to a guide or porter hired by mountain climbers in the Himalayas.

More Reading Comprehension

D Choose the correct number for the sentence below.

Sherpas worship the mountains.

Sherpas are a group of people living in northeastern Nepal. (1) Most of them live around the world's highest mountain, Mt. Everest, and there are about 40,000 Sherpas in all. (2) Sherpas are most likely from Tibet, because they wear Tibetan clothing and share many Tibetan traditions. (3) They even call Mt. Everest "Chomolungma," which means "mother of the gods." (4)



Mountain Survival Skills

Vocabulary Practice

A Choose the correct words for the definitions.

prepare	shelter	blanket	run out
essential	stream	spark	steel

Word

Definition

- essential *adj.* necessary
- stream *n.* a body of flowing water that is smaller than a river
- steel *n.* a very strong, hard kind of metal made mainly of iron
- shelter *n.* a place that keeps people and things dry and safe
- blanket *n.* a piece of cloth used to cover and keep a person warm
- run out *v.* to become used up or finished
- spark *n.* a small, brief flame made by hitting two hard things together
- prepare *v.* to get everything ready before doing something

B Choose the best answer to complete each sentence.

- If you have _____ something, then you have a lot of it in one place.
 a. a cup of b. a couple of c. a pile of
- If something is _____, then it is below the surface of earth.
 a. huge b. underground c. heavy
- A _____ is an opening or an empty space in something.
 a. container b. hole c. solid
- A large opening in the earth or in a mountain is called a _____.
 a. cave b. hill c. cliff

Sentence Practice

C Unscramble the sentences.

- (drinking water / Another thing / clean / is / you'll need / .)
Another thing you'll need is clean drinking water.
- (can be / prepared / dangerous / if / Mountains / you're not / .)
Mountains can be dangerous if you're not prepared.
- (running water, / or river / to look for / a stream / It's best / such as / .)
It's best to look for running water, such as a stream or river.
- (cover / a blanket, / If you don't have / your body / instead / with a pile of leaves / .)
If you don't have a blanket, cover your body with a pile of leaves instead.
- (any empty containers, / rainwater / use them / you can / If you have / to collect / .)
If you have any empty containers, you can use them to collect rainwater.
- (and got lost / Imagine / of plants and animals / with your friends or family / you went hiking / while taking pictures / .)
Imagine you went hiking with your friends or family and got lost while taking pictures of plants and animals.

More Reading Comprehension

D Choose the correct number for the sentence below.

Just make sure that the fire doesn't spread!

Fire is essential because mountains get cold at night, even in the summer. (1) Fire also keeps dangerous animals away and can let people know where you are. (2) Therefore, you should always carry a lighter or a box of matches with you. (3) If you don't have either of these, you can hit a rock against a piece of steel to make a spark and start a fire. (✓)



How Electricity Is Made

Vocabulary Practice

A Choose the correct words for the definitions.

magnet	alternative	operate	pollute
renewable	spin	reliable	steam

- | | Word | Definition |
|----|--------------------|--|
| 1. | <u>operate</u> | v. to use and control something, such as a machine |
| 2. | <u>steam</u> | n. gas that is created by boiling water |
| 3. | <u>spin</u> | v. to turn around and around quickly |
| 4. | <u>alternative</u> | adj. providing another option or choice |
| 5. | <u>magnet</u> | n. a piece of metal that can attract other metals |
| 6. | <u>pollute</u> | v. to make the environment dirty and unsafe |
| 7. | <u>reliable</u> | adj. always doing what it is expected to do |
| 8. | <u>renewable</u> | adj. able to be replaced naturally and used again |

B Choose the best answer to complete each sentence.

- A _____ is a source of energy formed from dead plants or animals.
 a. fossil fuel b. wind power c. solar energy
- Something is _____ if it is created by separating or joining the parts of atoms.
 a. intelligent b. dramatic c. nuclear
- If something is _____ good, it is better than other similar things.
 a. relatively b. perfectly c. fortunately
- A(n) _____ is a machine that creates electricity.
 a. equipment b. generator c. radioactive

Sentence Practice

C Unscramble the sentences.

- (inside it / A generator / a machine / is / with magnets / .)
A generator is a machine with magnets inside it.
- (what / is / electricity / of the magnets / The spinning / creates / .)
The spinning of the magnets is what creates electricity.
- (many alternative / to make / There are / electricity / methods / .)
There are many alternative methods to make electricity.
- (causes / which can also / generators / to turn, / power / Wind / windmills / .)
Wind causes windmills to turn, which can also power generators.
- (that live / Building dams / can have / in the water / harmful effects / on plants and animals / .)
Building dams can have harmful effects on plants and animals that live in the water.
- (bringing / for themselves, / have found ways to / many dramatic changes / People / make electricity / to our lives / .)
People have found ways to make electricity for themselves, bringing many dramatic changes to our lives.

More Reading Comprehension

D Choose the correct number for the sentence below.

Using nuclear power is another way to create steam.

- Fossil fuels can be burned to create steam, which is then used to operate generators. (1)
 This is the most common method of operating generators. (2) Unfortunately, burning fossil fuels releases large amounts of carbon into the air, so it pollutes our environment. (3) ✓
 Nuclear reactions create lots of heat, which is then used to make steam. (4)



Eel Power!

Vocabulary Practice

A Choose the correct words for the definitions.

power	aluminum	awareness	promote
capture	panel	attack	electrical socket

- | <i>Word</i> | <i>Definition</i> |
|-----------------------------|---|
| 1. <u>capture</u> | v. to take something or gain control of it |
| 2. <u>attack</u> | v. to act violently and try to hurt someone or something |
| 3. <u>promote</u> | v. to make people think something is important |
| 4. <u>electrical socket</u> | n. a device on a wall that an electrical plug is put into |
| 5. <u>aluminum</u> | n. a shiny metal that is strong and light |
| 6. <u>panel</u> | n. a flat piece of material used as part of a larger object, such as a wall |
| 7. <u>power</u> | v. to provide the energy or strength to do something |
| 8. <u>awareness</u> | n. knowledge or understanding about a subject or issue |

B Choose the best answer to complete each sentence.

- If something is _____ true, then it is likely to be true.
 a. mainly ✓ probably c. hardly
- An electric _____ is a long, thin fish that can make electricity.
 ✓ eel b. shark c. dolphin
- You _____ when you move from one place to another.
 a. generate b. stay ✓ travel
- If you _____ something, then you release it into the environment.
 a. hold onto b. take back ✓ give off

Sentence Practice

C Unscramble the sentences.

- (about 183 centimeters / a Christmas tree / It's / that is / tall / .)
It's a Christmas tree that is about 183 centimeters tall.
- (an electrical socket / more power / in your home / than / That's / .)
That's more power than an electrical socket in your home.
- (and ponds / Electric eels / of South America / in the streams / live mainly / .)
Electric eels live mainly in the streams and ponds of South America.
- (about 6,000 / have / like batteries / special cells / Electric eels / that store power / .)
Electric eels have about 6,000 special cells that store power like batteries.
- (the amount / They can control / they give off / of electricity / .)
They can control the amount of electricity they give off.
- (to be more aware of / Electric eels / the environment / can teach us / .)
Electric eels can teach us to be more aware of the environment.

More Reading Comprehension

D Choose the correct number for the sentence below.

The aluminum panels absorb that electricity.

The power of the electric eel is captured with a specially designed water tank. (1) There are two aluminum panels inside the tank, which make it act like a battery. (2) The electric eel gives off electricity every time it moves. (3) The electricity then travels from the aluminum panels to the lights on the Christmas tree. (4)



The Future of Driving

Vocabulary Practice

A Choose the correct words for the definitions.

rechargeable	cost	research	atmosphere
emission	engine	impact	average

Word

Definition

- atmosphere *n.* the layer of air that surrounds the earth
- emission *n.* a gas or other substance released into the air
- cost *n.* the amount of money needed to pay for something
- research *n.* study of something in order to find information
- average *adj.* ordinary or normal, not special
- engine *n.* the part of a machine that provides power
- rechargeable *adj.* able to be refilled with electricity or energy
- impact *n.* a powerful effect that one thing has on another

B Choose the best answer to complete each sentence.

- When you _____ something, you provide it with more energy.
 a. remember b. reprint c. refuel
- A _____ is place that provides energy for electric cars.
 a. train station b. gasoline station c. charging station
- A device that holds and supplies electricity is called a _____.
 a. battery b. vessel c. tank
- If something happens _____, then it does not happen in a clear or straight way.
 a. falsely b. indirectly c. depending

Sentence Practice

C Unscramble the sentences.

- (five minutes / It / less than / the empty tank / takes / to fill / .)
It takes less than five minutes to fill the empty tank.
- (driven / any emissions / don't release / Electric cars / when / .)
Electric cars don't release any emissions when driven.
- (can go / electric cars / Gasoline-powered cars / much faster / than / .)
Gasoline-powered cars can go much faster than electric cars.
- (burning / created by / They / use electricity / fossil fuels / that is often / .)
They use electricity that is often created by burning fossil fuels.
- (the burning of / cars' engines / fossil fuels / Gasoline-powered / produced by / use energy / .)
Gasoline-powered cars' engines use energy produced by the burning of fossil fuels.
- (about 90% less / a gasoline-powered car / costs / means that / driving an electric car / than driving / This / .)
This means that driving an electric car costs about 90% less than driving a gasoline-powered car.

More Reading Comprehension

D Choose the correct number for the sentence below.

For these reasons, people have been trying to find better forms of energy to power their cars.

Today, most cars use energy made by burning fossil fuels, like gasoline. (1) But there are many problems with fossil fuels, including high prices and air pollution. (2) One of the alternatives to today's gasoline-powered cars is the electric car. (3) Let's take a look at some of the differences between electric cars and gasoline-powered cars. (4)



Student Switch Off

Vocabulary Practice

A Choose the correct words for the definitions.

residence hall	campaign	appliance	planet
upload	participate	remarkable	competition

- | | <i>Word</i> | <i>Definition</i> |
|----|-----------------------|--|
| 1. | <u>campaign</u> | <i>n.</i> an effort to achieve a specific result |
| 2. | <u>residence hall</u> | <i>n.</i> a building at a university where students live |
| 3. | <u>participate</u> | <i>v.</i> to take part in an activity |
| 4. | <u>appliance</u> | <i>n.</i> a machine that is used in the home |
| 5. | <u>competition</u> | <i>n.</i> a contest in which people or groups try to win something |
| 6. | <u>upload</u> | <i>v.</i> to move something onto a computer or website |
| 7. | <u>remarkable</u> | <i>adj.</i> amazing or better than expected |
| 8. | <u>planet</u> | <i>n.</i> a large, round object that moves around a star |

B Choose the best answer to complete each sentence.

- The _____ is the amount that something is used.
 a. usage b. average c. reuse
- When you use "_____" you mean "at the present time."
 a. forever b. currently c. before
- You use "_____" when you talk about a situation in general.
 a. shortly b. next c. overall
- A(n) _____ is something that you tend to do.
 a. habit b. benefit c. example

Sentence Practice

C Unscramble the sentences.

- (can be reduced / changing / Energy use / simply by / small habits / .)
Energy use can be reduced simply by changing small habits.
- (aims / fun / Overall, / saving energy / Student Switch Off / to make / .)
Overall, Student Switch Off aims to make saving energy fun.
- (its message / It / social networking sites / used / to spread / .)
It used social networking sites to spread its message.
- (and help / example / follow / protect the planet / this campaign's / Why don't you / ?)
Why don't you follow this campaign's example and help protect the planet?
- (saving electricity / students / can / funny pictures / upload / about / .)
Students can upload funny pictures about saving electricity.
- (It / and raise awareness / used / its message / to spread / social networking sites / .)
It used social networking sites to spread its message and raise awareness.

More Reading Comprehension

D Choose the correct number for the sentence below.

It asks them to turn off lights and appliances when they are not needed.

This campaign encourages students who live in the school's residence halls to save energy. (✓) It also suggests putting on a sweater instead of turning up the heat when it's cold. (2) Another tip for students is to put a lid on pans when cooking. (3) During the campaign's first year, energy use in residence halls was reduced by an average of more than 10%. (4)



The History of Plastic

Vocabulary Practice

A Choose the correct words for the definitions.

substitute	flexible	transparent	leak
prize	toxic	mold	offer

- | | Word | Definition |
|----|--------------------|--|
| 1. | <u>leak</u> | v. to go out through a hole in something |
| 2. | <u>offer</u> | v. to give someone the chance to take or have something |
| 3. | <u>toxic</u> | adj. containing a poisonous or dangerous substance |
| 4. | <u>prize</u> | n. an award given for winning a competition |
| 5. | <u>mold</u> | v. to make a material into a specific shape |
| 6. | <u>substitute</u> | n. something that can be used in place of something else |
| 7. | <u>transparent</u> | adj. clear, able to be seen through |
| 8. | <u>flexible</u> | adj. able to be bent easily |

B Choose the best answer to complete each sentence.

- When you _____ something, you show it for the first time.
 a. introduce b. produce c. debate
- A _____ is an object that is made to be sold.
 a. natural b. material c. product
- If something is made _____ of a certain material, then it includes only that material.
 a. freely b. various c. entirely
- If you _____, then you do not succeed at something or cannot do it.
 a. pass b. fail c. compete

Sentence Practice

C Unscramble the sentences.

- (for common use / to produce / Parkesine / too expensive / was / .)
Parkesine was too expensive to produce for common use.
- (inexpensive, and / its shape / was / it kept / Bakelite / when heated / .)
Bakelite was inexpensive, and it kept its shape when heated.
- (true plastic / artificial materials, / Made entirely of / the first / it was / .)
Made entirely of artificial materials, it was the first true plastic.
- (and it held / be molded, / when cooled / it could / its shape / Once heated, / .)
Once heated, it could be molded, and it held its shape when cooled.
- (from shopping bags / plastic is used / Today, / in almost everything, / to cars / .)
Today, plastic is used in almost everything, from shopping bags to cars.
- (and toxic chemicals / breaks down slowly, / Plastic waste / can leak from it / .)
Plastic waste breaks down slowly, and toxic chemicals can leak from it.

More Reading Comprehension

D Choose the correct number for the sentence below.

In 1866, John Wesley Hyatt created celluloid while trying to win the prize.

In the 19th century, billiards was so popular that a lot of elephants were being killed for their ivory, which was used to make billiard balls. (1) So, people tried to find a substitute. (2) A U.S. billiard ball company offered a prize of \$10,000 to the person who could design the best substitute for natural ivory. (3) Although he failed to win, Celluloid was later used to make many products, including false teeth, piano keys, and ping pong balls. (4)



Solutions to the Plastic Problem

Vocabulary Practice

A Choose the correct words for the definitions.

recycle	float	rust	reuse
punch	disposable	convenient	vehicle

- | <i>Word</i> | <i>Definition</i> |
|----------------------|---|
| 1. <u>convenient</u> | <i>adj.</i> able to be done easily |
| 2. <u>rust</u> | <i>v.</i> [iron] to become covered in a reddish substance |
| 3. <u>reuse</u> | <i>v.</i> to use something again |
| 4. <u>disposable</u> | <i>adj.</i> made to be thrown away after only one use |
| 5. <u>recycle</u> | <i>v.</i> to create something new from something that has been used |
| 6. <u>float</u> | <i>v.</i> to stay or move on the surface of a liquid |
| 7. <u>vehicle</u> | <i>n.</i> a machine used to move and carry people or things |
| 8. <u>punch</u> | <i>v.</i> to make small holes in something |

B Choose the best answer to complete each sentence.

- A _____ is a small, hard block of clay used for building.
 a. metal b. wood brick
- If you _____ an idea, then you think of it.
 a. take out of come up with c. put inside of
- When the surface of the earth shakes, this is called a(n) _____.
 a. flood b. volcano earthquake
- If something _____ a particular amount, that is how heavy it is.
 weighs b. compares c. costs

Sentence Practice

C Unscramble the sentences.

- (are made / convenient, / life / many disposable products / To make / .)
To make life convenient, many disposable products are made.
- (and containers / Fifty tons of / to make it / plastic bottles / were used / .)
Fifty tons of plastic bottles and containers were used to make it.
- (44 tons / that it can hold / and vehicles / It is / so strong / of people / .)
It is so strong that it can hold 44 tons of people and vehicles.
- (a bridge / is / Another / recycled plastic / amazing example of / in Scotland / .)
Another amazing example of recycled plastic is a bridge in Scotland.
- (are designed / earthquakes and typhoons / to survive / The plastic bricks / .)
The plastic bricks are designed to survive earthquakes and typhoons.
- (are floating in / millions of tons of plastic / and polluting the ocean / people aware that / to make / The purpose of the journey / was / .)
The purpose of the journey was to make people aware that millions of tons of plastic are floating in and polluting the ocean.

More Reading Comprehension

D Choose the correct number for the sentence below.

Or you can cut a bottle in half and use it as a hand shovel.

Next time, before you throw away something plastic, see if it can be recycled, or think of a creative way to reuse it. (1) It doesn't necessarily have to be a big creation like the examples above. (2) There are many simple, useful things you can do. (3) For example, you can punch little holes in the bottom of a plastic bottle and use it to water plants. (✓) Why don't you try to come up with some creative ideas of your own?



Toy of the Century

Vocabulary Practice

A Choose the correct words for the definitions.

carpenter	arrange	satisfied	durable
achieve	ideal	theme	complicated

- | | Word | Definition |
|----|--------------------|---|
| 1. | <u>complicated</u> | <i>adj.</i> difficult to understand or deal with |
| 2. | <u>carpenter</u> | <i>n.</i> a worker who makes things out of wood |
| 3. | <u>arrange</u> | <i>v.</i> to move things into specific locations |
| 4. | <u>durable</u> | <i>adj.</i> able to stay strong and last for a long time |
| 5. | <u>theme</u> | <i>n.</i> a specific subject or idea |
| 6. | <u>achieve</u> | <i>v.</i> to reach something through hard work |
| 7. | <u>ideal</u> | <i>adj.</i> perfect; exactly right for a situation |
| 8. | <u>satisfied</u> | <i>adj.</i> feeling happy with something that has been done |

B Choose the best answer to complete each sentence.

- If you have _____ about something, then you are not sure that it is true.
 a. doubt b. mix c. belief
- When you _____ something, you officially accept it.
a. film b. destroy c. recognize
- Something is _____ if there are no other things like it.
 a. unique b. ordinary c. fast
- You _____ by doing something in a newer and better way.
a. search b. innovate c. remain

Sentence Practice

C Unscramble the sentences.

- (from / product lines / Some / themes / popular movies / use / .)
Some product lines use themes from popular movies.
- (a kids' toy / become / did / How / so successful / ?)
How did a kids' toy become so successful?
- (how / their unique / were invented / This is / plastic bricks / .)
This is how their unique plastic bricks were invented.
- (its toy was / is that / until / just right / The first / the company / wasn't satisfied / .)
The first is that the company wasn't satisfied until its toy was just right.
- (for years to come / children around the world / LEGO toys / There's little doubt that / to love / will continue / .)
There's little doubt that children around the world will continue to love LEGO toys for years to come.
- (even when / LEGO searched for / make parts that / moved to / a way to / somewhere else / would stick together / .)
LEGO searched for a way to make parts that would stick together even when moved somewhere else.

More Reading Comprehension

D Choose the correct number for the sentence below.

The LEGO Group's vision was to make toys that let children learn through playing.

The second reason for LEGO's success is the toy itself. (✓) And their unique bricks allowed them to achieve their vision. (2) The design of these simple, durable, colorful bricks is ideal for a child's toy. (3) It allows kids to create nearly anything imaginable. (4) It is possible to arrange six bricks in 915,103,765 different ways!



Benefits of Plastic

Vocabulary Practice

A Choose the correct words for the definitions.

medical	sanitize	eyesight	scratch
joint	advantage	grocery	combination

- | | <i>Word</i> | <i>Definition</i> |
|----|--------------------|--|
| 1. | <u>scratch</u> | v. to make a small line or cut on the surface of something |
| 2. | <u>advantage</u> | n. a good or useful feature of something |
| 3. | <u>joint</u> | n. a place in the body where two bones connect |
| 4. | <u>medical</u> | adj. related to medicine or treating health problems |
| 5. | <u>groceries</u> | n. food bought from a store or supermarket |
| 6. | <u>combination</u> | n. the process of bringing two or more things brought together |
| 7. | <u>eyesight</u> | n. the ability to see |
| 8. | <u>sanitize</u> | v. to make something clean and safe to use |

B Choose the best answer to complete each sentence.

- If something is _____, then it is big and important.
 a. artificial ✓ significant c. terrible
- A(n) _____ is a chance that something bad might happen.
 a. goal ✓ risk c. opportunity
- Things _____ if they are present.
 ✓ exist b. repeat c. pretend
- If you do something _____, then you do it the right way.
 a. tightly b. quickly ✓ properly

Sentence Practice

C Unscramble the sentences.

- (were made / In the past, / most / of metal / artificial joints / .)
In the past, most artificial joints were made of metal.
- (boil / Hospitals / medical tools / used to / to sanitize them / .)
Hospitals used to boil medical tools to sanitize them.
- (artificial joints / to make / medical use of / plastic / Another / is / .)
Another medical use of plastic is to make artificial joints.
- (also plays / an important role / Did you know / in the medical industry / that plastic / ?)
Did you know that plastic also plays an important role in the medical industry?
- (be easily formed / into any shape / weighing less / Plastic has / the advantages of / and being able to / .)
Plastic has the advantages of weighing less and being able to be easily formed into any shape.
- (many joints / Today, / and plastic parts / are made / from a combination / of metal / .)
Today, many joints are made from a combination of metal and plastic parts.

More Reading Comprehension

D Choose the correct number for the sentence below.

Instead, plastic is used. Plastic eyeglass lenses are lighter, thinner, less likely to break and harder to scratch.

Finally, how's your eyesight? (1) If you wear glasses or contact lenses, you can thank plastic for giving you good eyesight. (2) Today, actual glass isn't used to make eyeglass lenses anymore. (3) And contact lenses are made of plastic, too. (4)

Memo
