

Unit 1_ Underwater Explorers

Vocabulary Preview p.10

A

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

What is the paragraph mainly about? p.11

- ☐ P1 scuba divers ☐ P2 cave diving ☐ P3 caves ☐ P4 dangers

CHECK YOUR COMPREHENSION p.12

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

5. Only about one percent of scuba divers are qualified to do it.

6. Even the most trained people can lose their way, get stuck, or run out of oxygen and die.

SHOW YOUR COMPREHENSION p.13

- ① without natural light ② between narrow passages
③ visit sea caves ④ have fish living

SUMMARIZE YOUR READING p.13

- ① gear ② qualified ③ deep ④ natural light
⑤ lava tubes ⑥ formations ⑦ oxygen ⑧ unforgettable

Unit 2_ ID? My Ear

Vocabulary Preview p.14

A

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

What is the paragraph mainly about? pp.15

- ☐ P1 identification ☐ P2 How ☐ P3 Where ☐ P4 limitations ☐ P5 ears

CHECK YOUR COMPREHENSION p.16

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

5. They discovered that each person has his or her own unique ear shape.

6. They say that there is no proof that the shapes of a person's ears stay the same.

SHOW YOUR COMPREHENSION p.17

- ① the shapes of each person's ears ② 99.6 percent accurate
③ there is not enough light ④ may not stay the same

SUMMARIZE YOUR READING p.17

- ① identification ② fingerprints ③ ears ④ different
⑤ scanning ⑥ airports ⑦ limitations ⑧ change

Unit 3_ $a^2+b^2=c^2$

Vocabulary Preview p.18

A

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

What is the paragraph mainly about? p.19

P2 Pythagorean Theorem P3 example P4 useful P5 Where

CHECK YOUR COMPREHENSION p.20

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

5. It states that the area of the square on the longest side is equal to the sum of the squares on the other two sides.

6. It is 10.

SHOW YOUR COMPREHENSION p.21

- ① some mathematicians ② the square on the longest side
③ the squares on the other two sides ④ the length of the third side

SUMMARIZE YOUR READING p.21

- ① right triangles ② longest side ③ sum ④ Pythagoras
⑤ named after ⑥ countries ⑦ length ⑧ two sides

Unit 4_ A Royal Library

Vocabulary Preview p.22

A

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

What is the paragraph mainly about? p.23

P1 Kyujanggak P2 King Jeongjo P3 scholars P4 closed

CHECK YOUR COMPREHENSION p.24

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

5. He wanted to protect the scholars from political pressure.

6. It keeps precious Korean historical records, enables people to conduct research, and issues an annual journal *Kyujanggak*.

SHOW YOUR COMPREHENSION p.25

- ① the writings of former kings ② the reforms of King Jeongjo
③ Seoul National University ④ issues a journal annually

SUMMARIZE YOUR READING p.25

- ① royal library ② King Jeongjo ③ former kings ④ roles
⑤ reforms ⑥ political partners ⑦ policies ⑧ issues

THINK & WRITE 1

STEP 1 예시 답안

1. I go to the library once or twice a month.
2. I usually borrow books or study for my exams at the library.

STEP 2 FIRST DRAFT

Supporting sentence 1: borrow books for free

Details: for a certain period of time

Supporting sentence 2: librarians that help people

Details: for book recommendations

Supporting sentence 3: is a good place to study

Conclusion: with limited distractions

STEP 3 FIRST DRAFT

There are several good things about using a library.

First of all, we can borrow books for free. If we become a member of a library, we can borrow books for a certain period of time.

Second, there are librarians that help people. Librarians are experts on books. People can ask them for book recommendations, and they can help people find the right books.

Lastly, a library is a good place to study. A library is a quiet place with limited distractions, so people can concentrate on their studies.

A library has many benefits because it lends books for free, has librarians, and is a good place to study.

STEP 4 FINAL DRAFT

Title What Are Some Benefits of Using a Library?

There are several good things about using a library.

First of all, we can borrow books for free. If we become a member of a library, we can borrow books for a certain period of time.

Second, there are librarians that help people. Librarians are experts on books. People can ask them for book recommendations, and they can help people find the right books.

Lastly, a library is a good place to read. Most libraries offer comfortable environments to read. People can enjoy reading without anyone bothering them.

A library has many benefits because it lends books for free, has librarians, and is a good place to read.

Unit 5_How to Get People on Your Side

Vocabulary Preview p.30

A

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

What is the paragraph mainly about? p.31

P2 audience P3 emotions P4 evidence

CHECK YOUR COMPREHENSION p.32

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

5. We can show our audience pictures of these people and their lives or tell them a story that will inspire them.

6. We can use statistics, detailed examples, or newspaper articles.

SHOW YOUR COMPREHENSION p.33

- ① can make a difference ② Show pictures of
③ that will inspire them ④ cite a newspaper article

SUMMARIZE YOUR READING p.33

- ① persuasive speech ② audience ③ need ④ emotion
⑤ remember ⑥ evidence ⑦ statistics ⑧ convince

Unit 6_ How Glaciers Change the Land

Vocabulary Preview p.34

A

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

What is the paragraph mainly about? p.35

P1 glaciers P2 where P3 shapes P4 Lakes

CHECK YOUR COMPREHENSION p.36

1. a 2. a 3. b 4. d
5. A horn is a sharp point at a mountain's peak.
6. The Great Lakes contain around 20 percent of the world's liquid fresh water.

SHOW YOUR COMPREHENSION p.37

- ① enormous sheets of ice and snow ② changed the face of the Earth
- ③ deep, narrow valleys ④ sharp points on mountain peaks

SUMMARIZE YOUR READING p.37

- ① enormous ② retreated ③ fjords ④ seawater
- ⑤ peak ⑥ sides ⑦ horn ⑧ liquid fresh water

Unit 7_ Art in Everyday Life

Vocabulary Preview p.38

A

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

What is the paragraph mainly about? p.39

P1 pop art P2 famous P3 works

CHECK YOUR COMPREHENSION p.40

1. d 2. c 3. b 4. c
5. By using popular culture, he wanted to get closer to the public.
6. They attacked Warhol by saying that his art represented consumerism.

SHOW YOUR COMPREHENSION p.41

- ① everyday objects and celebrities ② American art in the 1960s
- ③ represented consumerism ④ very popular and valuable

SUMMARIZE YOUR READING p.41

- ① pop artists ② celebrities ③ popular culture ④ the Factory
- ⑤ consumerism ⑥ changed ⑦ died ⑧ valuable

Unit 8_ Get a Good Night's Sleep

Vocabulary Preview p.42

A

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

What is the paragraph mainly about? p.43

P2 appetite P3 gain P4 quality

CHECK YOUR COMPREHENSION p.44

1. d 2. d 3. d 4. c
5. The human body needs at least 7 hours of sleep a day.
6. The quality of sleep is important.

SHOW YOUR COMPREHENSION p.45

- ① Leptin suppresses appetite ② will not feel full after a meal
- ③ they can easily gain weight ④ If people do not sleep deeply

SUMMARIZE YOUR READING p.45

- ① gain weight ② link ③ suppresses ④ increases
- ⑤ full ⑥ lose weight ⑦ quality ⑧ bad sleep

THINK & WRITE 2

STEP 1 예시 답안

1. We can eat better food and exercise more often.
2. They will make us lose weight and improve the conditions of our bodies.

STEP 2 FIRST DRAFT

Supporting sentence 1: food that is nutritious and healthy

Details: are much better than fast food

Supporting sentence 2: exercise more often

Details: make people much healthier

Supporting sentence 3: take vitamin supplements

Conclusion: for their bodies to work well

STEP 3 FIRST DRAFT

We can do many things to improve our health every day.

First, we can eat food that is nutritious and healthy. Fruits and vegetables are much better than fast food.

They can help people lose weight.

Second, we can also exercise more often. Jogging, running, and aerobics are great ways to exercise. They can make people much healthier.

Lastly, we can take vitamin supplements at times. Vitamin supplements can help people get the necessary vitamins for their bodies to work well.

We can improve our health by eating nutritious food, doing exercise, and taking vitamins at times.

STEP 4 FINAL DRAFT

Title What Can We Do for Our Health Every Day?

We can do many things to improve our health every day.

First, we can eat food that is nutritious and healthy. Fruits and vegetables are much better than fast food. They can help people lose weight.

Second, we can also exercise more often. Jogging, running, and aerobics are great ways to exercise. They can make people much healthier.

Lastly, we can stop staying up so late. It is better for people's bodies to go to bed early so that they can get enough sleep.

We can improve our health by eating nutritious food, doing exercise, and getting enough sleep every day.

Unit 9_ New Ways to See Art

Vocabulary Preview p.50

A

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

What is the paragraph mainly about? p.51

P1 Why P2 augmented reality P3 virtual P4 museums P5 art

CHECK YOUR COMPREHENSION p.52

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

5. VR creates a computer-generated world and lets people explore it.

6. People can use VR to see the Rosetta Stone and mummies from Egypt at the British Museum.

SHOW YOUR COMPREHENSION p.53

- ① a computer-generated world ② puts them into the real world
③ can take a virtual tour ④ with a desktop computer

SUMMARIZE YOUR READING p.53

- ① in person ② collections ③ VR ④ Renaissance art
⑤ Egypt ⑥ modern art ⑦ travel ⑧ tours

Unit 10_ The Farms of the Future

Vocabulary Preview p.54

A

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

What is the paragraph mainly about? p.55

P1 farmland P2 vertical farming P3 advantages P4 cities

CHECK YOUR COMPREHENSION p.56

1. a 2. d 3. b 4. d
5. Greenhouses have just one level while vertical farms have many levels.
6. The reason is that vertical farms operate indoors.

SHOW YOUR COMPREHENSION p.57

- ① The amount of farmland ② have many levels
- ③ grow crops all year round ④ harmful insects and diseases

SUMMARIZE YOUR READING p.57

- ① population ② farmland ③ smaller ④ levels
- ⑤ indoors ⑥ less water ⑦ less water ⑧ popular

Unit 11_ For Only Good Dreams

Vocabulary Preview p.58

A

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

What is the paragraph mainly about? p.59

P1 Europeans P2 dream catcher P3 made P4 worked

CHECK YOUR COMPREHENSION p.60

1. d 2. c 3. d 4. c
5. It was placed over a person's bed.
6. The bad dreams vanished when the sun came up.

SHOW YOUR COMPREHENSION p.61

- ① keep away bad dreams ② a twig from a willow tree
- ③ had string woven in the center ④ until the sun came up

SUMMARIZE YOUR READING p.61

- ① Native Americans ② keep away ③ hoop ④ string
- ⑤ feathers ⑥ bed ⑦ pass through ⑧ vanished

Unit 12_ The Ozone Layer Saves Itself?

Vocabulary Preview p.62

A

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

What is the paragraph mainly about? p.63

P1 atmosphere P2 the ozone layer P3 important P4 discovered

CHECK YOUR COMPREHENSION p.64

1. a 2. d 3. c 4. c
5. It protects the Earth from the harmful ultraviolet rays of the sun.
6. They have discovered that some parts of the ozone layer have holes.

SHOW YOUR COMPREHENSION p.65

- ① a high concentration of ozone gas ② the sun's harmful ultraviolet rays
- ③ the ozone layer have holes ④ the ozone layer can repair itself

SUMMARIZE YOUR READING p.65

- ① atmosphere ② consists of ③ oxygen atoms ④ important
- ⑤ ultraviolet rays ⑥ holes ⑦ in size ⑧ repair

THINK & WRITE 3

STEP 1 예시 답안

1. Some major environmental problems include air pollution, climate change, and deforestation.
2. Human activities such as driving cars, using plastic products, and eating meat affect the environment negatively.

STEP 2 FIRST DRAFT

Supporting sentence 1: conserve water

Details: while brushing our teeth

Supporting sentence 2: avoid using disposable products

Details: harmful to the environment

Supporting sentence 3: try to eat less meat

Conclusion: Cutting our meat consumption

STEP 3 FIRST DRAFT

There are some simple things we can do to help save the Earth.

First of all, we can conserve water. For example, we can take short showers and turn off the tap while brushing our teeth.

Second, we can avoid using disposable products. They cause a significant amount of waste that is harmful to the environment. Instead, we can use reusable shopping bags or cups.

Lastly, we can try to eat less meat. It takes a lot of land and energy to produce meat. Cutting our meat consumption can help save the Earth.

To help save the Earth, we can conserve water, use fewer disposable products, and eat less meat.

STEP 4 FINAL DRAFT

Title How Can We Help Save the Earth?

There are some simple things we can do to help save the Earth.

First of all, we can conserve water. For example, we can take short showers and turn off the tap while brushing our teeth.

Second, we can avoid using disposable products. They cause a significant amount of waste that is harmful to the environment. Instead, we can use reusable shopping bags or cups.

Lastly, we can plant trees. As trees grow, they help stop climate change by removing carbon dioxide from the air.

To help save the Earth, we can conserve water, use fewer disposable products, and plant trees.

Unit 13_ The Secrets of Stars

Vocabulary Preview p.70

A

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

What is the paragraph mainly about? p.71

P2 past P3 colors

CHECK YOUR COMPREHENSION p.72

1. c 2. c 3. d 4. d

5. Stars are extremely far away from Earth, so their light takes many years to reach Earth.

6. They are blue, white, yellow, orange, and red.

SHOW YOUR COMPREHENSION p.73

- | | |
|--------------------------------|--------------------------------------|
| ① actually looking at the past | ② extremely far away from Earth |
| ③ different colors | ④ have to do with their temperatures |

SUMMARIZE YOUR READING p.73

- | | | | |
|---------------|------------|----------|----------|
| ① existed | ② far away | ③ travel | ④ colors |
| ⑤ temperature | ⑥ red | ⑦ yellow | ⑧ blue |

Unit 14_ The Other Stonehenges

Vocabulary Preview p.74

A

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

What is the paragraph mainly about? p.75

- ☐ P1 Stonehenge ☐ P2 legend ☐ P3 Lake Michigan

CHECK YOUR COMPREHENSION p.76

1. d 2. c 3. d 4. b
5. They were once soldiers but were frozen where they stood.
6. It is located twelve meters below the surface of Lake Michigan.

SHOW YOUR COMPREHENSION p.77

- ① a monument of standing stones ② prehistoric megalith
- ③ with seventeen stones ④ arranged in rows

SUMMARIZE YOUR READING p.77

- ① megalith ② standing stones ③ others ④ seventeen
- ⑤ sunset ⑥ arranged ⑦ Lake Michigan ⑧ mastodon

Unit 15_ Music in Famous Paintings

Vocabulary Preview p.78

A

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

What is the paragraph mainly about? p.79

- P1 characteristic P2 *Saul and David* P3 Edouard Manet P4 Cubists

CHECK YOUR COMPREHENSION p.80

1. d 2. a 3. b 4. b
5. In the early 1900s, Cubist art was popular for a while.
6. It shows a man playing the violin with a small town in the background.

SHOW YOUR COMPREHENSION p.81

- ① depicted music in their paintings ② a source of inspiration
- ③ *Saul and David* by Rembrandt ④ with their instruments

SUMMARIZE YOUR READING p.81

- ① art periods ② Cubist Period ③ different ④ characteristic
- ⑤ music ⑥ Rembrandt ⑦ instruments ⑧ inspiration

Unit 16_ Helper or Bystander?

Vocabulary Preview p.82

A

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

What is the paragraph mainly about? p.83

- P1 car accident P2 unwilling P3 Good Samaritan

CHECK YOUR COMPREHENSION p.84

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

5. It refers to a person who helped a stranger that had been robbed and beaten.

6. People are not allowed to sue anyone who tries to help them.

SHOW YOUR COMPREHENSION p.85

- ① stopped offering assistance ② people who try to help others
③ are not allowed to sue ④ afraid to help out others

SUMMARIZE YOUR READING p.85

- ① helped ② in need ③ sued ④ unwilling
⑤ ignore ⑥ Good Samaritan ⑦ Bible ⑧ willing

THINK & WRITE 4

STEP 1 예시 답안

1. Yes, I have. I picked up litter around my school and neighborhood.
2. I like animals, so I would like to work at an animal shelter.

STEP 2 FIRST DRAFT

Supporting sentence 1: too busy doing their schoolwork

Details: homework and team projects

Supporting sentence 2: have enough information

Details: where and how to volunteer

Supporting sentence 3: volunteering is not interesting

Conclusion: chatting with their friends

STEP 3 FIRST DRAFT

Students do not spend enough time volunteering.

First, they are too busy doing their schoolwork. Every day, they have a lot of work to do, such as homework and team projects.

Second, they do not have enough information. There are many types of volunteer work that they can do. But most students do not know where and how to volunteer.

Lastly, they think volunteering is not interesting. Students are more interested in fun activities like chatting with their friends and watching movies.

Many students do not volunteer because of their busy lives, insufficient information, and the feeling that it is boring.

STEP 4 FINAL DRAFT

Title Why Do Many Students Not Volunteer?

Students do not spend enough time volunteering.

First, they are too busy doing their schoolwork. Every day, they have a lot of work to do, such as homework and team projects.

Second, they do not have enough information. There are many types of volunteer work that they can do. But most students do not know where and how to volunteer.

Lastly, students worry about studying too much. They can lose valuable study time by volunteering, so they often hesitate to spend time volunteering.

Many students do not volunteer because of their busy lives, insufficient information, and concern about their studies.

Unit 17_ Basic Geometry

Vocabulary Preview p.90

A

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

What is the paragraph mainly about? p.91

- P1 line segment P2 vertical P3 intersecting P4 curved

CHECK YOUR COMPREHENSION p.92

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

5. A horizontal line moves to the left and right while a vertical line moves up and down.

6. A curved line looks like a part of a circle.

SHOW YOUR COMPREHENSION p.93

- ① endpoints and a fixed length ② only to the left and right
③ never touch each other ④ that intersect at a right angle

SUMMARIZE YOUR READING p.93

- ① end ② fixed length ③ horizontal ④ vertical
⑤ touch ⑥ intersecting ⑦ right angle ⑧ zigzag

Unit 18_ The Imjin War

Vocabulary Preview p.94

A

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

What is the paragraph mainly about? p.95

P1 Japan P2 start P3 Yi Sun-sin P4 How

CHECK YOUR COMPREHENSION p.96

1. d 2. c 3. c 4. b
5. The king asked the Chinese Ming Dynasty for assistance.
6. Admiral Yi's fleet destroyed hundreds of Japanese ships in several battles.

SHOW YOUR COMPREHENSION p.97

- ① captured Hanyang ② defeated the Japanese
- ③ invaded Korea again ④ their hope of defeating Korea

SUMMARIZE YOUR READING p.97

- ① Joseon Dynasty ② capital ③ leave ④ weapons
- ⑤ ceasefire ⑥ fewer ships ⑦ battles ⑧ defeating

Unit 19_ Forests by the Shore

Vocabulary Preview p.98

A

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

What is the paragraph mainly about? p.99

P1 Where P2 unusual P3 benefits P4 problems P5 protect

CHECK YOUR COMPREHENSION p.100

1. d 2. b 3. b 4. d
5. The roots exposed to air take in oxygen.
6. They provide wood, food, and medicine for the people who live near them.

SHOW YOUR COMPREHENSION p.101

- ① can tolerate salt water ② erosion and storm surges
- ③ provide a place to live ④ people developing the land

SUMMARIZE YOUR READING p.101

- ① subtropical ② shores ③ roots ④ erosion
- ⑤ underwater ⑥ in trouble ⑦ Rising sea levels ⑧ preserve

Unit 20_ Is Early Childhood Education Effective?

Vocabulary Preview p.102

A

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

What is the paragraph mainly about? p.103

P1 old P2 like P3 against

CHECK YOUR COMPREHENSION p.104

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

5. These children make friends more easily and cause fewer problems at school.

6. Young children are not ready to sit at desks and to study like they are in elementary school.

SHOW YOUR COMPREHENSION p.105

- ① children who are three or four ② improve their social skills
③ be home with their parents ④ unhealthy environments

SUMMARIZE YOUR READING p.105

- ① disadvantages ② more easily ③ doing math ④ social skills
⑤ playing ⑥ young ⑦ unhealthy ⑧ get sick

THINK & WRITE 5

STEP 1 예시 답안

1. I study English for 2 hours a day.
2. I try to memorize at least 15 new English words a day.

STEP 2 FIRST DRAFT

Supporting sentence 1: watch movies and TV shows

Details: improve our English

Supporting sentence 2: Reading books is a great way

Details: expand our vocabulary

Supporting sentence 3: Playing educational games

Conclusion: while having fun

STEP 3 FIRST DRAFT

There are several fun and easy ways we can improve our English.

First, we can watch movies and TV shows. They can help us improve our English, especially our listening skills and pronunciation.

Second, reading books is a great way to learn English. When we read, we can learn correct grammar and expand our vocabulary.

Lastly, playing educational games can be helpful. These games allow us to practice English while having fun.

We can improve our English by watching movies and TV shows, reading books, and playing educational games.

STEP 4 FINAL DRAFT

Title How Can We Improve Our English?

There are several fun and easy ways we can improve our English.

First, we can watch movies and TV shows. They can help us improve our English, especially our listening skills and pronunciation.

Second, reading books is a great way to learn English. When we read, we can learn correct grammar and expand our vocabulary.

Lastly, keeping a diary in English can be helpful. When we write in English, we use new vocabulary and practice grammar we have learned.

We can improve our English by watching movies and TV shows, reading books, and keeping a diary in English.