

Unit 01_ The World Is a Stage

Vocabulary Preview p. 10

A

1. f 2. d 3. e 4. b 5. a 6. c

What is the paragraph mainly about? p. 11

P1 busking P2 types P3 benefits P4 easy

CHECK YOUR COMPREHENSION p. 12

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

5. Parks, streets, and even subway stations are all popular busking locations nowadays.

6. Many buskers have trouble making a steady income.

SHOW YOUR COMPREHENSION p. 13

- ① engage in acrobatics ② the most popular types ③ make a little money
④ exchange culture and ideas ⑤ some see it as begging

SUMMARIZE YOUR READING p. 13

- ① in public ② many types ③ living statues ④ appealing
⑤ find work ⑥ easy ⑦ support ⑧ fortune

Unit 02_ Magic Numbers in the Universe

Vocabulary Preview p. 14

A

1. f 2. a 3. b 4. d 5. c 6. e

What is the paragraph mainly about? p. 15

P1 Fibonacci P2 question P3 results P4 What P5 nature

CHECK YOUR COMPREHENSION p. 16

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

5. The number of petals in a flower, the spiral pattern in a pinecone, the way tree branches split, and the spiral shape of a galaxy reflect them both.

6. When represented visually, it implies that everything in life spirals outward from one source.

SHOW YOUR COMPREHENSION p. 17

- ① an Italian mathematician ② the number of rabbit pairs ③ two previous numbers
④ called the golden ratio ⑤ the number of petals

SUMMARIZE YOUR READING p. 17

- ① sequence ② be produced ③ assumptions ④ found
⑤ characteristics ⑥ previous two ⑦ successive ⑧ nature

Unit 03_ From Bright to White

Vocabulary Preview p. 18

A

1. d 2. a 3. c 4. e 5. f 6. b

What is the paragraph mainly about? p. 19

P1 Why P2 Eastern P3 Western P4 white P5 white

CHECK YOUR COMPREHENSION p. 20

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

5. In these cultures, the color red is seen as a symbol of good luck and wealth.

6. White was not a popular option because it was not an easy color to keep clean.

SHOW YOUR COMPREHENSION p. 21

- ① a combination of red and white ② show their happiness ③ difficult to keep clean
④ Queen Victoria's wedding ⑤ has lost all meaning

SUMMARIZE YOUR READING p. 21

- ① common ② wealth ③ colorful dresses ④ good luck
⑤ the color blue ⑥ white ⑦ popular ⑧ purity

Unit 04_ Translating for the Future

Vocabulary Preview p. 22

A

1. f 2. c 3. d 4. a 5. e 6. b

What is the paragraph mainly about? p. 23

P1 translation P2 do P3 benefits P4 applications [apps] P5 future

CHECK YOUR COMPREHENSION p. 24

1. d 2. c 3. c 4. d
5. These could include cultural elements and words that have multiple meanings.
6. They hire human translators to check the translations for errors.

SHOW YOUR COMPREHENSION p. 25

- ① things in everyday life ② can download and use them ③ can be taken anywhere
- ④ lead to embarrassing mistranslations ⑤ certain cultural elements

SUMMARIZE YOUR READING p. 25

- ① demand ② web content ③ benefits ④ accessible
- ⑤ problems ⑥ certain languages ⑦ cultural ⑧ multiple

THINK & WRITE 1

STEP 1 예시 답안

1. I normally use email to communicate with my friends.
2. I can send long letters to my friends through email.

STEP 2

Supporting sentence 1: easy to use

Details: a smartphone, tablet, or computer

Supporting sentence 2: let you send other forms of media

Supporting sentence 3: a group chat feature

Details: families and study groups

Conclusion: sending various types of content

STEP 3 FIRST DRAFT

The most convenient way to communicate is through instant messenger applications.

First, instant messenger apps are easy to use. All you need is a smartphone, tablet, or computer, and you can download and use the apps for free.

Second, in addition to sending messages, the apps also let you send other forms of media. You can share photos, videos, and sound clips easily.

Finally, the apps also have a group chat feature. You can add multiple users to the group, which is convenient for families and study groups.

In conclusion, instant messenger applications are the most convenient way to communicate because they are easy to use, capable of sending various types of content, and have a group chat feature.

STEP 4 FINAL DRAFT

Title Which Form of Communication is the Most Convenient?

The most convenient way to communicate is through instant messenger applications.

First, instant messenger apps are easy to use. All you need is a smartphone, tablet, or computer, and you can download and use the apps for free.

Second, in addition to sending messages, the apps also let you send other forms of media. You can share photos, videos, and sound clips easily.

Finally, some instant messenger apps also offer unlimited free calling and video calling. If your friend or family member lives in another country, you can call him or her for free.

In conclusion, instant messenger applications are the most convenient way to communicate because they are easy to use, capable of sending various types of content, and have a free calling feature.

Unit 05_ Many Moons

Vocabulary Preview p. 30

A

1. e 2. f 3. a 4. b 5. c 6. d

What is the paragraph mainly about? p. 31

P1 moons P2 number P3 shapes P4 formed P5 provisional

CHECK YOUR COMPREHENSION p. 32

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

5. Scientists believe that most moons formed from the gas and dust that were circling the sun after the formation of the solar system.

6. They are moons that may have been detected, but scientists have not been able to confirm their existence.

SHOW YOUR COMPREHENSION p. 33

- ① orbiting the inner planets ② have more moons ③ lumpy and irregular in shape
④ have oceans and volcanoes ⑤ a large body collided with Earth

SUMMARIZE YOUR READING p. 33

- ① natural ② inner planets ③ numerous ④ pull objects
⑤ rounded ⑥ dust ⑦ Earth's moon ⑧ confirmed

Unit 06_ Math in Our Everyday Lives

Vocabulary Preview p. 34

A

1. b 2. c 3. d 4. f 5. a 6. e

What is the paragraph mainly about? p. 35

P1 fractions P2 fractions P3 grocery P4 recipes P5 math

CHECK YOUR COMPREHENSION p. 36

1. d 2. b 3. b 4. c
5. A decimal is simply a fraction changed into a number such as 0.5 and 0.75.
6. They say that their smartphones and other devices have special applications that can do calculations.

SHOW YOUR COMPREHENSION p. 37

- ① a part of a whole ② a fraction changed into a number ③ like a half, a third, and a quarter
- ④ cheaper by using decimals ⑤ can measure the exact amount

SUMMARIZE YOUR READING p. 37

- ① fraction ② a number ③ frequently ④ left
- ⑤ determining ⑥ groceries ⑦ cheaper ⑧ ingredients

Unit 07_ Having Difficulties? No Problem!

Vocabulary Preview p. 38

A

1. f 2. d 3. c 4. a 5. b 6. e

What is the paragraph mainly about? p. 39

P1 inspire P2 poverty P3 Ray Charles P4 disorder P5 impact

CHECK YOUR COMPREHENSION p. 40

1. c 2. d 3. a 4. d
5. He helped create a new genre of music called soul.
6. When she was a child, her mother had her play the piano to make her fingers stronger.

SHOW YOUR COMPREHENSION p. 41

- ① suffered from severe depression ② through his art ③ created beautiful songs
- ④ was born with two fingers ⑤ won numerous contests

SUMMARIZE YOUR READING p. 41

- ① difficulties ② inspiration ③ Blue Period ④ blind
- ⑤ musician ⑥ award-winning ⑦ successful ⑧ overcome

Unit 08_ A Revolution That Changed the World

Vocabulary Preview p. 42

A

1. d 2. b 3. a 4. e 5. f 6. c

What is the paragraph mainly about? p. 43

P1 before P2 Industrial Revolution P3 caused P4 political P5 positives

CHECK YOUR COMPREHENSION p. 44

1. d 2. b 3. d 4. a
5. Coal was an essential fuel during industrialization
6. The navy protected private traders, and this maximized overseas trade and profits.

SHOW YOUR COMPREHENSION p. 45

- ① farming and manufacturing ② an abundant supply of coal ③ for a free-market system
- ④ increased job opportunities ⑤ dangerous work environments

SUMMARIZE YOUR READING p. 45

- ① influence ② transform ③ industrialized ④ factors
- ⑤ abundant ⑥ exchanged ⑦ political ⑧ benefited

THINK & WRITE 2

STEP 1 예시 답안

1. Seoul is one of the most urbanized regions in the world.
2. In Seoul, there are a lot of people, cars, shops, and buildings. It is also very crowded.

STEP 2

Details: emissions from cars and factories

Supporting sentence 2: The high cost of living in big cities

Details: leaves some living in poverty

Supporting sentence 3: creates traffic problems

Details: makes traffic congestion even worse

Conclusion: affects people negatively

STEP 3 FIRST DRAFT

Although urbanization has many positive effects on human life, there are several important problems with it.

First, one negative effect is air pollution. Nowadays, many countries are suffering from climate change, and emissions from cars and factories in cities are mainly responsible for it.

Second, the high cost of living in big cities is another problem. As more people move to cities, living expenses such as food and housing rapidly increase, which leaves some living in poverty.

Lastly, urbanization also creates traffic problems in most populated areas. Many people drive their cars into downtown areas to get to work, and this makes traffic congestion even worse.

In conclusion, urbanization affects people negatively because it pollutes the air, raises the cost of living, and causes heavy traffic.

STEP 4 FINAL DRAFT

Title What Are Some Negative Effects of Urbanization?

Although urbanization has many positive effects on human life, there are several important problems with it.

First, one negative effect is air pollution. Nowadays, many countries are suffering from climate change, and emissions from cars and factories in cities are mainly responsible for it.

Second, the high cost of living in big cities is another problem. As more people move to cities, living expenses such as food and housing rapidly increase, which leaves some living in poverty.

Lastly, urbanization also brings about problems in public health. When people gather in crowded areas, they are more likely to catch and spread viruses and other illnesses.

In conclusion, urbanization affects people negatively because it pollutes the air, raises the cost of living, and increases the likelihood of epidemics.

Unit 09_ The Power of Nature

Vocabulary Preview p. 50

A

1. f 2. c 3. d 4. e 5. a 6. b

What is the paragraph mainly about? p. 51

P1 Philippines P2 where P3 classifications P4 cause

CHECK YOUR COMPREHENSION p. 52

1. c 2. b 3. b 4. d
5. Its powerful winds caused flooding and landslides, and nearly 10,000 people were killed or injured.
6. The center of the storm is called the eye and is where the weather is usually calm.

SHOW YOUR COMPREHENSION p. 53

- ① tropical storms ② in the eye of a typhoon ③ areas of low air pressure
- ④ grow stronger over warm water ⑤ super typhoon

SUMMARIZE YOUR READING p. 53

- ① warm water ② accompanied by ③ high waves ④ strengthen
- ⑤ their winds ⑥ classifications ⑦ severe ⑧ super typhoons

Unit 10_ Fashionable Pollution

Vocabulary Preview p. 54

A

1. d 2. f 3. a 4. b 5. c 6. e

What is the paragraph mainly about? p. 55

☐ P1 clothing ☐ P2 high fashion ☐ P3 fast ☐ P4 environment ☐ P5 animals

CHECK YOUR COMPREHENSION p. 56

1. c 2. d 3. d 4. a
5. Most people had to prepare their own fabrics and make their own clothing.
6. They replicate certain items and sell them cheaply.

SHOW YOUR COMPREHENSION p. 57

- ① made clothing easier to produce ② grew in popularity ③ pollute water resources
- ④ make leather and fur items ⑤ end up in landfills

SUMMARIZE YOUR READING p. 57

- ① difficult to do ② sewing machine ③ mass-produce ④ high fashion
- ⑤ online shopping ⑥ polluter ⑦ precautions ⑧ trends change

Unit 11_ Things That We Shouldn't Forget

Vocabulary Preview p. 58

A

1. c 2. f 3. d 4. b 5. a 6. e

What is the paragraph mainly about? p. 59

P1 diary P2 viewed P3 Holocaust P4 remembered

CHECK YOUR COMPREHENSION p. 60

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

5. As Hitler gained more power, many Germans began to agree with his hateful opinions.

6. There are memorials throughout Europe where concentration camps used to exist.

SHOW YOUR COMPREHENSION p. 61

- ① mass murder of Jewish Europeans ② blamed Jewish Germans ③ his hateful ideas
④ excluded from German society ⑤ experienced great suffering

SUMMARIZE YOUR READING p. 61

- ① diary ② hated ③ problems ④ discriminated
⑤ concentration ⑥ were killed ⑦ memorials ⑧ occur again

Unit 12_ Shared Treasures

Vocabulary Preview p. 62

A

1. c 2. f 3. d 4. b 5. e 6. a

What is the paragraph mainly about? p. 63

P1 goal P2 save P3 formed P4 types P5 Korea

CHECK YOUR COMPREHENSION p. 64

1. d 2. b 3. b 4. a
5. UNESCO believes they belong to all of us rather than to any one nation, so they should be saved for future generations.
6. This site became a natural heritage site in 2007 and boasts an extraordinary volcanic landscape.

SHOW YOUR COMPREHENSION p. 65

- ① being flooded by the Nile River ② ancient ruins, and buildings
- ③ geographical and geological features ④ cultural and natural heritage ⑤ natural heritage site

SUMMARIZE YOUR READING p. 65

- ① promotes ② cooperation ③ protects ④ universal value
- ⑤ saved ⑥ establishment ⑦ registered as ⑧ mixed

THINK & WRITE 3

STEP 1 예시 답안

1. My country is known for its amazing foods such as pizza and pasta.
2. The Leaning Tower of Pisa is a famous architectural site in my country.

STEP 2

Supporting sentence 1: see the country's amazing wildlife

Details: many unique animals

Supporting sentence 2: another famous tourist location

Details: a wide variety of shows

Supporting sentence 3: Tourists who love beaches

Details: great for surfers and swimmers

STEP 3 FIRST DRAFT

Australia has many interesting attractions, but I think tourists would be most interested in the following three.

First, many tourists visit Australia to see the country's amazing wildlife. Australia has many unique animals such as kangaroos, koalas, and wombats.

Second, the Sydney Opera House is another famous tourist location. The opera house offers tours and a wide variety of shows.

Finally, tourists who love beaches will have a great time at Byron Bay. This beach is great for surfers and swimmers alike.

In conclusion, Australia has many exciting things, but the things sure to please visitors are the unique wildlife, the Sydney Opera House, and Byron Bay.

STEP 4 FINAL DRAFT

Title Which Three Things in Your Country Would You Introduce to Tourists?

Australia has many interesting attractions, but I think tourists would be most interested in the following three.

First, many tourists visit Australia to see the country's amazing wildlife. Australia has many unique animals such as kangaroos, koalas, and wombats.

Second, the Sydney Opera House is another famous tourist location. The opera house offers tours and a wide variety of shows.

Finally, tourists who enjoy hiking can visit the Blue Mountains in New South Wales. There are numerous hiking trails that offer spectacular natural scenery.

In conclusion, Australia has many exciting things, but the things sure to please visitors are the unique wildlife, the Sydney Opera House, and the hiking trails in the Blue Mountains.

Unit 13_ Body Image and Food

Vocabulary Preview p. 70

A

1. d 2. f 3. b 4. c 5. e 6. a

What is the paragraph mainly about? p. 71

P1 eating disorders P2 is P3 bulimia nervosa P4 What P5 causes

CHECK YOUR COMPREHENSION p. 72

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

5. People who have eating disorders have an unhealthy relationship with food.

6. Both men and women can suffer from eating disorders, but teen girls and young adult women are most at risk.

SHOW YOUR COMPREHENSION p. 73

- ① food avoidance and weight loss ② food should be restricted ③ purge by vomiting
④ weight gain and obesity ⑤ biological and social factors

SUMMARIZE YOUR READING p. 73

- ① unhealthy ② overweight ③ weight loss ④ be restricted
⑤ overeat ⑥ obesity ⑦ unclear ⑧ unattainable

Unit 15_ This Time, I Am the Leader!

Vocabulary Preview p. 78

A

1. d 2. c 3. f 4. e 5. b 6. a

What is the paragraph mainly about? p. 79

☐P1 leader ☐P2 democratic ☐P3 coercive ☐P4 transactional

CHECK YOUR COMPREHENSION p. 80

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

5. It is highly effective in short-term and emergency situations when fast decisions are needed to prevent further chaos.

6. This method works when the rewards and punishments are what motivate the people involved.

SHOW YOUR COMPREHENSION p. 81

- ① times of change in an organization ② when time is limited ③ orders and immediate compliance
④ an organization's flexibility ⑤ meeting minimum expectations

SUMMARIZE YOUR READING p.81

- ① certain situations ② participation ③ quick decision ④ compliance
⑤ punishment ⑥ an emergency ⑦ rewards ⑧ motivate

Unit 16_ Wear SMART!

Vocabulary Preview p. 82

A

1. b 2. d 3. a 4. c 5. f 6. e

What is the paragraph mainly about? p. 83

- P1 clothing P2 How P3 medical P4 military

CHECK YOUR COMPREHENSION p. 84

1. c 2. b 3. c 4. d
5. They are fabrics that have electronic materials, such as computer chips, embedded in them.
6. These uniforms protect soldiers from heat, dangerous chemicals, and gases.

SHOW YOUR COMPREHENSION p. 85

- ① react to weather changes ② have digital sensors ③ can monitor a patient's vitals
- ④ monitor the health of soldiers ⑤ stabilize the wounded

SUMMARIZE YOUR READING p.85

- ① made of ② electronic ③ embedded in ④ react to
- ⑤ medical ⑥ health status ⑦ uniforms ⑧ protect

THINK & WRITE 4

STEP 1 예시 답안

1. I use the Internet to do my homework about three times a week.
2. I see tablets and computers.

STEP 2

Supporting sentence 1: get information quickly and conveniently

Details: typing key words or phrases

Supporting sentence 2: saves time and energy

Details: have to go to a particular place

Supporting sentence 3: makes studying more interesting

Details: can be more motivated to learn

STEP 3 FIRST DRAFT

I think the Internet is helpful for learning in several ways.

First, the Internet allows us to get information quickly and conveniently. Simply by typing key words or phrases into a search engine, we can get the information we need in just a few seconds.

Second, learning through the Internet saves time and energy. There are many lectures online. This means we do not have to go to a particular place to attend a lecture.

Lastly, the Internet makes studying more interesting. Compared to books, the Internet is more interactive and fun. So students can be more motivated to learn.

In short, the Internet helps us find information easily, lets us study at home, and motivates us to study more.

STEP 4 FINAL DRAFT

Title What Technology Do You Think Is Helpful for Learning?

I think the Internet is helpful for learning in several ways.

First, the Internet allows us to get information quickly and conveniently. Simply by typing key words or phrases into a search engine, we can get the information we need in just a few seconds.

Second, learning through the Internet saves time and energy. There are many lectures online. This means we do not have to go to a particular place to attend a lecture.

Lastly, the Internet helps us understand difficult topics. If we are confused about what we learned in school, we can use the Internet to find more information on a variety of subjects.

In short, the Internet helps us find information easily, lets us study at home, and helps us understand difficult topics.

Unit 17_ You Are Using Probability

Vocabulary Preview p. 90

A

1. c 2. e 3. d 4. f 5. b 6. a

What is the paragraph mainly about? p. 91

☐P1 probability ☐P2 weather ☐P3 flipping a coin ☐P4 useful

CHECK YOUR COMPREHENSION p. 92

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

5. It is the numerical value describing the likelihood that something will happen.

6. It means that given the weather conditions tonight, seven out of ten times the result will be rain.

SHOW YOUR COMPREHENSION p. 93

- ① the numerical value ② tell the chance of rain ③ decide between two activities
④ we should try doing something ⑤ make better choices

SUMMARIZE YOUR READING p.93

- ① occur ② weather forecast ③ chances ④ rolling
⑤ fifty-fifty ⑥ one-in-six ⑦ winning ⑧ outcomes

Unit 18_ A New Age of Painting

Vocabulary Preview p. 94

A

1. d 2. f 3. e 4. a 5. c 6. b

What is the paragraph mainly about? p. 95

P1 Caravaggio P2 troubled P3 technique P4 features

CHECK YOUR COMPREHENSION p. 96

1. c 2. b 3. d 4. d
5. It is a painting technique that emerged during the Renaissance and involves strong contrasts between light and dark.
6. He painted people with dirt underneath their fingernails and on their feet, as well as apples with bruises and wormholes.

SHOW YOUR COMPREHENSION p. 97

- ① had a violent temper ② contrasts between light and dark ③ extremely realistic pictures
- ④ a new age of painting ⑤ the founders of modern art

SUMMARIZE YOUR READING p.97

- ① violent man ② trouble ③ committing ④ many artists
- ⑤ painting technique ⑥ contrasts ⑦ heralded ⑧ founders

Unit 19_ Where Does the Water Go?

Vocabulary Preview p. 98

A

1. b 2. a 3. f 4. c 5. e 6. d

What is the paragraph mainly about? p. 99

P1 phases P2 (water) vapor P3 precipitation P4 falls P5 climate

CHECK YOUR COMPREHENSION p. 100

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

5. As water vapor enters the atmosphere, it starts to cool down, so condensation takes place.

6. The water flows into lakes, rivers, and streams and eventually goes back to the ocean.

SHOW YOUR COMPREHENSION p. 101

- ① Water from plants changes into vapor ② Solid water changes ③ changes into water droplets
④ falls back to the Earth ⑤ becomes groundwater

SUMMARIZE YOUR READING p.101

- ① continuous ② water vapor ③ cools down ④ condensation
⑤ form clouds ⑥ precipitation ⑦ infiltration ⑧ the climate

Unit 20_ The World Stays Single... Why?

Vocabulary Preview p. 102

A

1. d 2. c 3. f 4. b 5. a 6. e

What is the paragraph mainly about? p. 103

P1 changed P2 singletons P3 benefits P4 economy

CHECK YOUR COMPREHENSION p. 104

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

5. Nowadays, there are an increasing number of single-parent families as well as elderly people living by themselves.

6. Economists use the term solo economy to describe singletons as an emerging group of consumers.

SHOW YOUR COMPREHENSION p. 105

- ① economically independent ② their careers or studies ③ personal development
④ solo economy was created ⑤ developing various products

SUMMARIZE YOUR READING p.105

- ① families ② live alone ③ choosing ④ financial support
⑤ their jobs ⑥ products ⑦ view ⑧ being content

THINK & WRITE 5

STEP 1 예시 답안

1. I usually watch my favorite movies when I'm alone.
2. I can concentrate on my work more when I'm by myself.

STEP 2

Supporting sentence 1: relax when they are alone

Details: Leading busy lives at school or work

Supporting sentence 2: a variety of activities

Details: just stay home and watch movies

Supporting sentence 3: choose to do what they want

Details: other people's feelings into account

STEP 3 FIRST DRAFT

These days, there are several reasons why many people prefer to spend time alone.

First, people can relax when they are alone. Leading busy lives at school or work makes people tired, so they need to relax without being disturbed.

Second, there are a variety of activities people can enjoy alone. For example, they can go shopping, read a book at a café, hike by themselves, or just stay home and watch movies.

Lastly, people can choose to do what they want. When they are alone, they don't need to take other people's feelings into account. Therefore, they can make their own decisions.

In short, people spend time alone because they can relax, have fun by themselves, and do the things they want.

STEP 4 FINAL DRAFT

Title Why Do Many People in Modern Society Prefer to Spend Time Alone?

These days, there are several reasons why many people prefer to spend time alone.

First, people can relax when they are alone. Leading busy lives at school or work makes people tired, so they need to relax without being disturbed.

Second, there are a variety of activities people can enjoy alone. For example, they can go shopping, read a book at a café, hike by themselves, or just stay home and watch movies.

Lastly, people can have more time to improve themselves. Instead of concentrating on others, they can take courses or learn a new language.

In short, people spend time alone because they can relax, have fun by themselves, and have time for personal development.