

## **Reading Future Connect 3**

### **Unit 1. Technology Can Help**

Volunteering means that doing something of one's own free will for the benefit of society or the public. Volunteers are often performed through non-profit organizations, and they are also free to conduct volunteer work independently of official organizations.

The volunteer worker may receive compensation in many forms, such as reward for mental activity, meals, or transportation costs. They can also have a career that helps them get a job or go to school.

There are many forms of volunteer work, including visiting people who are less fortunate through physical labor, helping them in the event of disaster damage, and helping public institutions online.

For instance, the Cultural Public Diplomat has implemented a program called "Tap Public Diplomat," which reports errors related to Korea, to recruit volunteers. The program is a private public diplomatic activity selected by the Northeast Asian History Foundation to support civic groups, and introduces it as an online volunteer activity conducted by anyone, anytime, anywhere, to raise awareness about Korea.

East Sea Dokdo and heavy topics such as that everybody can easily able to participate in such a way to pride as a private public diplomacy ambassador, do it.

Also, since there are volunteer services at abandoned house shelters, cleaning up bookshelves, and doing community service, it is recommended to visit the homepage below as they allow you to find volunteer work you want.

Youth Activity Information Service :

<http://www.youth.go.kr/youth/eYouth/main/main.yt?curMenuSn=null>

## Unit 2. Junior Red Cross

RCY is the Red Cross Youth Red Cross in short. It is a worldwide youth organization called the Red Cross in elementary school, Red Cross in middle school and high school, and the Korean Red Cross in college.

RCY does its best for volunteer work for difficult neighbors around us, and through its friendly activities with domestic and overseas members, we understand and love others, and protect ourselves, friends, family, and neighbors' health and safety. The 21st century is a global village that transcends national borders, a time of volunteer work to respect human life, protect it, and achieve peace.

190 countries form the organization of the International Federation of Red Cross, and through exchanges with the Foreign Red Cross, they can promote goodwill and understand the country with other people. There are also a variety of rewarding and fun programs available, including health activities that protect lives and health, friendly activities with domestic and overseas friends, and volunteer activities for the community.

The Youth Red Cross is an international humanitarian organization formed during the 1919 International Committee of the Red Cross's resolution to carry out its activities. It is based on humanitarian efforts by Henry Dunant 140 years ago to rescue the wounded without discrimination at the battlefield.

Major activities include volunteering, understanding other people and promoting international friendship and promoting the ideology of the Red Cross.

In 1953, the Red Cross Youth approved by South Korea's president and Education Department schools. South Korea's Youth Red Cross has been organized in all schools, and has sent 10,000 trees to impoverished countries, safety lessons, gift boxes of friendship, a handful of love and a group of international aid workers to help keep the school green.

### Unit 3. Make the World Beautiful

Have you ever heard of Earth Day? April 22 each year is an Earth Environment Conservation Day established by conservationists to promote the seriousness of global environmental pollution. Dennis Hayes, who was born at Harvard University at the time of the 1969 maritime oil spill in California, started the event.

Various events are being held all over the world as "a day to practice small actions for the Earth."

The Ministry of Environment holds various promotional campaigns for Earth Day before and after Earth Day, and conducts lights out event as one of them. Local and municipal governments will extinguish buildings, symbols and lighting, and homes will carry out lighting, television and computer suspension.

The Seoul Energy Dream Center conducted a variety of special lectures and programs under the theme 'We decided to live without plastic.' The program also offered an up-to-right program, a plastic-recycle program, and a special description of Seoul's climate change program.

Recycling artist Christopher Allen performed an up-screw at San Lorenzo's Park in Monterey County, California in the United States. He likes to reinvent the everyday thing in different ways. Bottles, wires, scrap iron are excellent materials, and you can see firsthand how they are up-shaped into artwork. We can understand the value of recycling through the process in which we make beautiful works of art what we thought were trash.

National Geographic hosted the Run For Earth Marathon. He said he hosts the event to let more people know about Earth Day and to try to stay clean and healthy throughout the year. It was big enough to be held not only in Hong Kong but also in China, Taiwan, and Singapore.

Niagara Falls, Ontario, Canada celebrates Earth Week. It will also promote the Earth's environment, sustainable living, and gratitude to the Earth. It also makes various efforts to educate people about the importance of saving energy through recycling and energy conservation.

## Unit 4. Lickity Spilt

Lickity Spilt is a company that sells chocolate and candy. It is popular because of its special design and taste. But what is more surprising is that they were only 10 or 15 years old when they started the company.

He lived in a poor neighborhood. I wanted to see a movie, but I don't have any money, so I asked for money, and she said, 'I wonder if one of you makes candy bars.' This is the idea that created a company called the Lickity Spilt.'

Such children may become entrepreneurs at the age of 10. First of all, Chris Phillips is a millionaire in the age of digital networks. He became a millionaire by setting up a web hosting company and selling a 90 percent stake in an 18-year-old company for \$ 3 million.

Nick D'Aloisio, who is still a high school student, is also the youngest businessman to start his career. He taught himself to create his first application when he was 12 years old. At the age of 15, Trimit created an application that reduced news articles to 400 characters and provided them to its users.

Some girl businessmen succeeded in reading the song "Girl Senses." Juliette Brindak, now 25, created a site called 'Miss O and Friends' at the age of 16. It is a site where teenage girl users post their stories, listen to their troubles, and quiz each other, and it is now valued at more than \$ 15 million with more than 10 million visitors each month.

Although he was successful at a young age, he did not forget to leave his business advice behind. Nick D'Aloisio said, "If you have a good idea or a niche in the market, start a business. This is because investors all over the world are looking for a place to invest in."

## Unit 5. Computers Could Be Your Doctor

If the war between computers and doctors started, who would be the winner?

One area that IBM, which recently developed the artificial intelligence supercomputer, is planning to do is in medicine. IBM is now working with major U.S. hospitals on diagnosing and prescribing patients with an artificial intelligence computer, Watson.

Watson quickly summarizes hundreds of patient-related records that would have taken hours if the doctors had seen them themselves.

It is not only because computer skills have evolved that a man-made computer like Watson can dare to challenge the domain of doctors. There is a time when one can understand both human behavior and physical condition. Smart devices and applications can do this day after day. Sensors in smart devices are recording every single move we make.

The computer has sorted out eight things that are better than a doctor.

1. Real-time monitoring is available.
2. The sample is much larger.
3. Excellent data processing ability
4. Work is available 24/7.
5. There is no need to go out or wait.
6. Save money.
7. Improve accuracy.
8. The diagnosis results are objective.

Then, will the doctor fade away slowly? It's not. Because the computer is not capable of handling unexpected accidents, not all treatment cases are normal, and new diseases are likely to come along constantly.

The computer and doctor's battles should not be about winning or losing, but about the natural acceptance of information technology by doctors.

## Unit 6. The Best for Your Eyes

Everyone knows that computer work, watching TV, or using a cell phone is not good for your eyes. Experts predict that over the next 40 years, the number of people suffering from problems such as cataracts and glaucoma will more than double.

Fortunately, there are ways to minimize eye damage and protect your eye health.

### 1. Regular eye exams

Regular eye exams can detect early onset problems that could affect later on.

### 2. A good diet

A diet rich in fruits and vegetables is good for the eye health. Vegetables such as spinach and kale have lutein and Zeaxanthin, which can prevent cataracts, to reduce the risk of developing them. Besides, it is also good to see foods rich in Omega 3 such as grapes, salmon, mackerel, sardines and tuna.

### 3. Regular Exercise

Obesity can cause problems such as diabetes and blindness. Losing weight can also reverse vision damage caused by obesity, diabetes and high blood pressure.

### 4. Rest Your Eyes Often

Modern people who work on computers often experience eyestrain. Compliance with the "20-20-20 " rule is required to prevent this. You can turn your eyes on the computer screen every 20 minutes, and for 20 seconds, focus on objects that are 20 feet apart to relieve eyestrain and protect your eyes from eye diseases.

## Unit 7. Sunny Days?

The majority of the nation's people lack the time to get ' sunshine ', especially in the winter, as the days are shorter. Even if they are exposed to sunlight, they are busy wearing sunscreen or using mass production. This disrupts the absorption of vitamin D.

Vitamin D is a mandatory human hormone produced in the liver and kidney through sunlight, and if it is insufficient, the bones become weak and exposed to dementia, depression, and cardiovascular disease. Therefore, it is better to actively heat the sunlight in the spring to synthesize vitamin D in the body.

The Scandinavian countries have a relatively higher rate of depression and suicides than other countries, and one of the causes is the lack of sunlight. When the sun shines through the eye, it facilitates the production of serotonin hormones in brain cells, which in turn causes low levels of serotonin, and can also cause feelings of depression and lethargy.

Light also affects our bodies and minds a lot more. This is because changes in the Sun's light soon affect the body's biological rhythms. When you wake up, it affects your sleep and produces a variety of hormonal changes.

If you can't enjoy the sun, you can also use artificial light. Lighting light varies according to a person's visual, emotional, and physical condition. In the morning, it gradually wakes up, and during the day, lights like a bright sunlight are maintained, and in the evening, lights are lowered as at sunset to help prevent sleeping disorders and depression. In fact, it has been shown that patients get a long sleep and also feel better about depression.

## Unit 8. Health Signs in Your Nails

Keeping your fingernails clean and beautiful is important, but your fingernails tell my body condition. U.S. dermatologist Andrew Cambio says the fingernails are "windows that show health. "

Let's take a look at six types of nail symptoms and health.

### 1. Yellow nails

If your fingernails are yellow, thick, and easily broken, you may suspect fungus infections. Sometimes, yellow fingernails can be associated with psoriasis, diabetes, and respiratory diseases.

### 2. Broken, cracked nails

If your nails are cracked or cracked, you may be able to suspect mold infection or thyroid disease. Fragile fingernails can be caused by vitamin A, C, and B deficiency.

### 3. Nails with black or brown longitudinal stripes

If your fingernails are striped, you should wonder if they are malignant, and since the freckled skin underneath them is likely to develop into skin cancer, you should visit a hospital.

### 4. A nail with a rounded center

Drop a drop or two drops of water onto the center of your finger and it may come from a lack of iron in your body, and it is often caused by heart disease or hypothyroidism.

### 5. Horizontal Nails

It can be caused by trauma, such as getting caught in a car door, and it can be diabetes or pneumonia in the case of beau's lines (a vascular disease that occurs across the nail in parallel with the white nail root).

### 6. Green nails

It can be caused by bacterial infections, so it is better to take medicine.



## Unit 9. Be a Virtual Reality Character

VR refers to a specific environment, situation, and technology itself that is similar to the real world created by artificial technologies based on virtual reality. Created virtual environments or situations allow users to experience a spatial and visual experience that is similar to reality and to be free to enter and exit the boundaries of reality and imagination.

In addition to being immersed in the virtual reality, users can enter the virtual reality and interact with commands or controls, for instance, flight training simulations or 3D games.

VR technology is evolving. VR headsets are largely divided into two worlds, a game in which you can experience the virtual world created by computer graphics. Another world is a 360 degree image. It is a combination of videos, front and bottom, and up in all directions, and it includes the next road-view and Naver street image that we can often see.

If a 360 degree video is broadcast in real time, the flow becomes more intense. It allows me to go where I wanted to but couldn't. In Japan, there was a project to broadcast VR live for the elderly, who were having a difficult time getting involved in the wedding ceremony for their grandchildren. VR technologies are making rapid strides.

In the near future, I wonder if there will be a time when I feel confused as to whether I am experiencing VR with others or not.

## Unit 10. The Family That Writes Together

The Brontë family is a 19th century English literary family, three sisters who worked as writers from the 1840s to 1850s: Charlotte, Emily, and Anne Brontë. The reason why the family name is so unique is that when my father Patrick Bruntı came to England from Ireland, he changed his Irish surname to English Bruntı, but then changed it back to a name with a French accent.

The Brontë-sisters have been very popular since the publication of the novel, and are still considered classics in English literature. They all wrote under pseudonym, not their first names, and it was common for them to release their names in men's to avoid prejudice.

Charlotte Brontë's oldest daughter was a writer under the pseudonym of Currer Bell, and she has two of her major works: Jane Eyre, Shirley, and Villette.

Emily Brontë wrote the work 'Wuthering Heights' under the pseudonym of Ellis Bell. The Storm's Hill ' was his only novel and died young at the age of 30.

Anne Brontë's published her work with her sisters under the pseudonym of Acton Bell, 'Poems by Currer, Ellis, and Acton Bell.'

While most readers imagine the Brontë's sisters to be intelligent and attractive, a recent book published in Britain claimed that they are rather different from the imagination of its readers. Brontë's sister was said to have lived an unhappy, lacking life, and was eccentric and violent.

He also lived a reclusive life where he rarely left home. The reason she was able to write the masterpiece is because she fell in love with her teacher, provoking her imagination and sensibility.

## Unit 11. A Smart Kid

Tobias Druitt is a fantasy novel writer under the pseudonym of Michael Dowling. Surprisingly, at the young age of 10, he has already finished writing his third novel, founded his studies in Greek, Latin, Hebrew, and Beijing, and is also interested in particle physics. He has IQ of 170 at 11 years old, and is one of the top 0.2 percent in the United States. He made his name known when he appeared on a British TV talent show.

South Korea also has a program called the "Genius Excavation Team." Let's take a look at some of the children introduced in the program. First, at the age of five, she is Kim No-eun, an English girl who can even perform free-talking and simultaneous interpretation with foreigners. She has had a good command of English since she was three years old. He said he has accumulated skills by reading only books and DVDs without having a common experience in private education or living overseas.

When I looked at how to study English, I read back the words from the book or DVD, or while playing a role in the role of the main character, playing a role in which I picked up the English words. It is a playful approach to English. Kim No-eun met the famous British storyteller Anthony Brown and had a great time.

Hong Han-joo, a mathematical genius, was originally a child who hated arithmetic. One day, he met X, an unknown equation, and even studied college mathematics. He studied closely, going back to what he couldn't understand in the math world. Experts say that after the age of 11, it is possible to logically solve abstract problems and make a combination of reasoning, which is a combination of intellectual zeal and study methods.

## Unit 12. Jules Verne: The Father of the Future

Jules Verne was a 19th century French novelist who was the precursor of modern SF novels. Among them, *Paris in the 20th century* is considered a pioneering work that accurately describes the future.

He studied law at first, but he has admired literature. Because I like traveling, I traveled England, Scandinavia, and got to know many travellers and geographers. In 1863, he published a book titled 'Five Weeks in a Balloon,' which became an explosive hit, and then devoted himself to writing scientific adventure novels.

As science developed greatly in the late nineteenth century, many novels were published using natural science knowledge, and Verne had written about airplanes, submarines, and spaceships in space. He predicted the future of the human race in addition to his abundant imagination, and his dream of nuclear submarines and moon journeys are clearly realized. Some of his works have already been made into movies and are considered the father of science fiction along with Hugo Gernsback and H.G. Wells.

In addition, his novels inspired many space technology pioneers, entrepreneurs, and physicists. Among them, Apollo 8 captain Frank Bowman came back to Earth and sent a letter to Jules Verne's grandchildren.

"Our spacecraft Apollo 8 was launched in Florida, just like the spaceship Bobby Kane did, and the point on its way back to Earth was only 4 kilometers from the novel."

Bobby Kane is the main character of Jules Verne's novel, 'From the Earth to the Moon.' Bowman's letter was a tribute to a master who predicted the scientific principles of Verne's journey, its departure, and its return point 100 years ago.

As such, Jules Verne's books give you an idea and inspiration for the universe.

## Unit 13. Machine Learning

Machine learning, or machine learning, is one of the fields of artificial intelligence research that is intended to realize features like human learning on a computer. For instance, it could be trained to distinguish whether or not the emails received through machine learning are spam.

Machine running is a technique to study and build systems and algorithms that learn, predict and improve performance based on empirical data. Rather than performing the program commands set out, it is used to build a particular model based on the entered data to predict or derive decisions.

Machine learning is now used in most fields, including computer visual, natural language processing, speech and handwriting recognition, information retrieval and retrieval engines, and robotics.

Let's look at an example using machine running. The little watch Apple Watch on the wrist is working to save lives. Mobile health data provider Cardiogram uses the data from her Apple Watch's heart rate sensor to detect Atrial Fibrillation, Hypertension, and apnea, and can even trace diabetes. It is attracting attention as it is capable of knowing whether or not diabetes is present without additional equipment.

The heart sensor that is already mounted on the Apple Watch shows signs of diabetes, which is 85 percent accurate and very high. As heart rate changes the pattern of the heart rate is monitored and it is capable of detecting diabetes related changes such as high heart rate and slow recovery of the resting machine after exercise. It is receiving much attention as it can detect diabetes early on before complications occur.

## Unit 14. The Meaning of Zero

How did the number zero come into use?

The number zero has been found to be more than 500 years old than it has ever been known. It turned out that it was used by people from India in the early 3rd century. It was found in India's ancient manuscript to be using the concept of 0, and it was found that the document belonged to the 3rd and 4th centuries.

In Indian mathematics, one to nine different numbers and a special symbol, 0, were used to represent the numbers in a particular way, depending on the number where they were placed.

To detect zero, you must know the concept of void. In Sanskrit, India has the word "shnaidar," which means "blank, sky, air, and space," "non-established," and "non-existent." The Indian scholars described shnaidar as a "no" expression of "no" as a factor of number, making a very good decision not only from a mathematical point of view but also from a philosophical point of view. In the decimal system, shnaidar has shown that there are no numbers in the digits on which it is placed.

Later, the establishment of the decimal system and the widespread acceptance of Arabic numerals established the zero mark. The reason why Arabic numerals originated in India and the use of zero are so important is because they are associated with the introduction of the decimal system. This is because it is difficult to clearly distinguish between 101 and 11 unless zero is used in the decimal system.

## Unit 15. Kinds of Graphs

There are many kinds of graphs you can see. Let's take a look at them closely.

### #1 Line Graphs

It is the most common, simplest, and classic graph and the perfect solution for showing multiple series of closely related series of data. Since line graphs are very light-weight (they only consist of lines, as opposed to thicker chart types, as shown further below) they are great for a minimalistic look.

### #2 Bar Graphs

Bars (or columns) are the best types of graphs for presenting a single data series. Bar charts have a much heavier weight to them than line graphs so they really emphasize a point and stand out on the page.

### #3 Pie Graph

Pie charts have a bad reputation and are known for being messy and hard to read. If you're trying to illustrate the percentage breakdown of a small number of data points they can be very effective for instance, percent of people who prefer bananas, pineapple, and grapes.

### #4 Area Graph

An area chart is a solid area and can be effective when showing stacked, cumulative data series, for example, showing the cumulative sales revenue from different products. This allows the reader to easily visualize the "area" (or weight) of each series relative to each other.

### #5 Combo Chart

You can combine two types of graphs in one chart such as bars and lines. This is useful when presenting two data at the same time.

### #6 Spider Chart

A spider graph is a very suitable type of graph for showing qualitative data or overall score or comparison of multiple series.

## Unit 16. Ancient Pyramids and Angles

The representative building of Egypt is the Pyramid. The Giza Pyramid is the largest pyramid in the pyramid, followed by the Great Pyramid. It took about 20 years to build the Pyramid of Khufu alone, which was built around 2560 BC. Next to it are the pyramids of the son and grandson of Pharaoh.

The pyramids are a type of square horn that is commonly referred to as the three largest pyramids in the Egyptian newspaper. In addition, Mexico and China are said to have similar structures.

The Pyramid is a mysterious building that is a brilliant combination of millions of stones and a perfect geometry. Moreover, we cannot but admire the fact that the construction was completed over 4,500 years ago with the help and efforts of a pure human being.

The Great Pyramid is 210 times east and west, about 230 meters long, and individual stones are usually 1 meter tall, 2 meters wide, and various in length. The smallest of them is about 2.5 tons, and more than 2.3 million of them are expected to be collected, making the total weight over 6 million tons.

The bottom of the pyramid is 230 meters long, making only a maximum difference of 4.4 cm, and its bottom four corners are almost perpendicular. In addition, if you look in the direction of the whole building, the four base sides are pointed astronomically right, east and west.

It is amazing how this amazing building was constructed with the techniques of its time.