

English Communication I Lesson 4 Gorillas and Humans

1st grade English department

Textbook : Landmark Fit Lesson 4 Gorillas and Humans

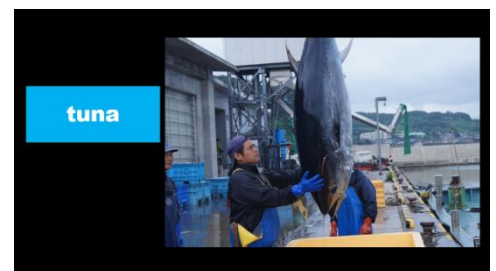
Period : September (6 hours)

● The aim of this lesson (cross-curriculum classes only)

1. Students learned about “the eco-system of animals and plants in Super Science Basic Biology. They reviewed and retained their knowledge and information through learning activities in English lessons.
2. Students were able to learn about the plants and animals on the Red List because humans have destroyed their ecosystems.
3. Among 2, we are going to learn about the relationship between the decreasing number of gorillas and humans collecting rare metal.
⇒Teachers told students that rare metal is used to make smartphones.
4. Students thought about how to form a sustainable society and how to change their behavior for the future. Students learned about SDGs in Basic Home Economics. From this October, for Super Science Mini-research, students are also going to investigate the problems of the Donan district in terms of SDGs.

● To understand how familiar animals, fish and plants are becoming extinct

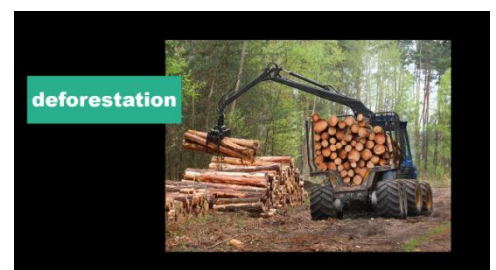
Teachers showed the Red List’s data and students could understand that the number of familiar creature, such as black bears, Pacific Bluefin tuna and chimpanzees has been decreasing. Students were surprised that unexpected animals and plants are in danger of extinction. (Listening) L1a, L1c



● To think about the reason why the number of animals and plants has been decreasing

Students suggested the reasons were, “deforestation”, “overhunting of animals and fish”, “water pollution”, the effects of global warming”, etc.

Next, they thought about why these things happened. Some of them said “human begins need a lot of places to live in”, “The population of the world is increasing more and more, so we need more food.”, “pollution dumped by factories”, “exhaust gas pollutes air” etc. (Listening)(Thinking)(Foresight) L1a, L1c, I1c



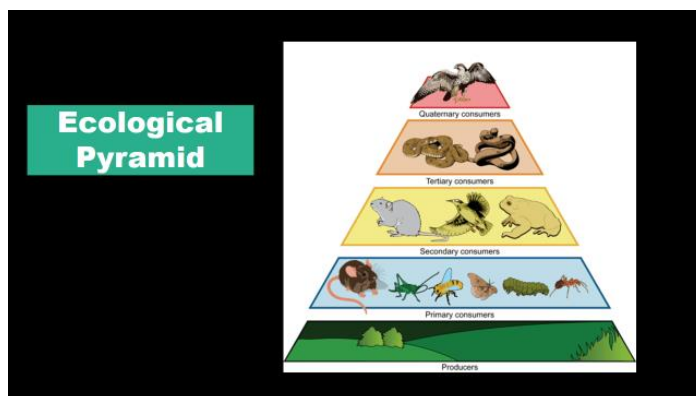
● **To think about why the number of gorillas have been decreasing due to collecting rare metals**

Students read Lesson4 and understood the present situation that human beings have destroyed a lot of forests, gorillas' living places, to get rare metals to make smartphones, PCs, and tablets. Students considered the problems which occurred to one species, for example it became extinct or its number decreased extremely through the “ecosystem pyramid”. (Thinking) **R1a**

● **Ecological Pyramid**

1. Teachers explained each level's name, in English. Students reviewed Super Science basic biology's lessons such as, the structure of the ecological pyramid,

2. Students thought about which level gorillas were on. ⇒ Students' answer: They are on the top of the pyramid.



3. Students could discuss and understand how the top level impacts other levels.

⇒ Because of excessive deforestation, producers are decreasing ⇒ All animals are affected ⇒ Human beings, at the top of this pyramid, are also no exception.

4. To realize sustainable world, we need to change our lifestyles.

- (1) To continue things by ourselves from now.
- (2) Even if it's impossible to do now, we will improve something in the future.
- (3) To continue the improvements we have already made.
- (4) Japanese government, local governments and companies should take action.

Students chose one theme from 1 to 4 gave an example and wrote essay. This time, students supposed counter-examples and counter-evidence. The students tried to make rebuttals or counter arguments against them. Before writing their essay, teachers showed their brief models to the students.

Teachers advised them to refer to SDG goals, especially, No.12 “Responsible consumption and production”, No.13 “Climate Action”, No.14 “Life below water” and No.15 “Life on land”. From this October, we started mini-investigations of Donan district in terms of SDGs. We hope that the students could understand SDGs viewpoints in various learning activities, such as Home Economics, English and the mini- Super Science Investigation classes.

(Listening) (Thinking) (Foresight) **W1a, W1c**

● Students' ideas and opinions

<To decrease rare metals output>

- It is almost impossible for us to recycle rare metals. Therefore, we should develop an easier way to recycle them.
- We should develop electronic devices which can function with clean energies, so we don't have to depend on rare metals when we make smartphones.
- We should set the world standard of using rare metals. If some countries or companies break the rules, they should face some penalties.

<To protect gorilla's living places>

- We should catch gorillas from mountains where humans get rare metals and transfer gorillas to other mountains where humans can't get rare metals. Then, we should plant gorillas' favorite foods there
- We should decide areas where humans can cut down trees, if some people violate the rule, local governments should punish them
- After deforestation, we should plant a lot of trees. It will take long time to recover forests, but if the forests grow again, animals will come back to the forests in the future.

<To reflect our own lifestyle>

- We should use our smartphone for a long time.
- We should recycle our smartphones and PCs when we don't need them.
- Even if we want to use new smartphones but, we can make use of second hand electronic devices other than smartphones.
- We should share PCs and tablets with our family so we can reduce the number of electronic devices.

● Conclusion

We have learned about environmental education in various subjects and activities. This time, we put emphasis on the viewpoint that we should continue small things by ourselves from today. The students tried writing essays about the theme. They recycle their smartphone and usually bring their own bags when they go shopping now. Many of them also know that Starbucks stop using plastic straws.

At the end of the lesson, we told the students that both individual activities and large-scale activities throughout a whole society should help maintain the world in peril. From now on, countries, local governments, and companies should have SDG viewpoints. First of all, we are going to consider Donan district problems in Super Science mini- investigation classes and we will be able to make use of this lesson's activities.