

2020 5th KIYO 4i Assignment

Subject

'Sustainable - prepare for the future and develop the present!'

Sustainable development refers to a development that meets the needs of the current generation without compromising the ability of future generation's needs.

For the sustainable development, we must maintain our environment clean for survival and achieve economic development through sustainable production methods. We should also promote peace, human rights, freedom and equality. In addition, democracy and justice in our society need to be protected. For sustainable development, population growth and economic growth must be made within the limits of the earth. Alternative and renewable energy should be actively utilized to efficiently use resources and prevent environmental pollution.

In this regard, how far is science and technology now, and how will this impact on human life and society? Let's think about what problems will arise from technology development.

<Elementary school student problem>

<Let's build an Eco-city!>



<Background Knowledge>

There are increasing concerns that urbanization has negative impacts on the environment.

Nowadays, our community members state to have more interest in the development of "eco-city". The term "environment-friendly city" means the introduction of new regulations as part of an integrated environmental policy by different approaches to urban development to restrict the restoration and construction of buildings.

A local government in Germany only approves only construction of 'low-energy' buildings and Seoul has transformed an overpass into park for pedestrians.

As such, 'environment-friendly city' needs an integrated and systematic approach to environmental protection, industrial ecology and social recovery. Although there are some positive aspects of creating an 'environmental-friendly city', but several problems will arise too.

What are the problems of building an 'environmental-friendly city' and how should we solve this problem?

<Problem>

1. Let's investigate regional and social problems caused by the construction of 'environment-friendly city'
2. Find specific ways or ideas to solve or improve some of the problems you found.
(Additional points will be given if your members show creative ideas in the process of solving the problems above)
3. Let's find ways to make your ideas or solutions effect to your region or your country.

<Scoring Guide>

Scoring rubric		Score
Problem recognition	Searching on the Regional or Social Problems caused by constructing 'Environmental City'	30
Finding Ideas	Finding specific ways or ideas to solve or improve some of the problems you searched	40
Diffusion of ideas	To find ways to spread ideas or solutions which were designed to solve the problems of one's own region or country	20
Additional point	When you and team members present creative ideas in solving problems	10
Total		100

Requirements in problem solving

The Problems should be resolved with the following procedures and you will present yours in presenting time.

1. Understanding problems

Present problems you can find around you and see how they affect humanity and the people. Interviews must be conducted to pinpoint the problems.

2. Finding Idea

Look for various ways to solve the problems. It's better to come up with as many ideas as possible. However, every competitors must respect each other's ideas and perspectives.

3. Choose Solution

Among many ideas, choose the solution that is the most cost-effective and advanced technology. Draw a figure to give audiences a better understanding of your idea (drawing must be needed)

4. Implementing solutions

Think about side effects when they applied in real life. Explain them to your friends, teachers, and family then look into if there are any enhanced solutions or improvements.

5. Submit an assignment

Organize your thoughts on the given task and submit the written response(should be less than A4 size 3 pages) & Summary (should be less A4

size 1 page) via email down below(wwiea@wwiea.org)

6. Presentation

The participating team will record a video (should be less than 2 mins length) that presents solutions and ideas about the tasks and send it via email down below(wwiea@wwiea.org)

<Middle school student problems>

< Are those financial assistances, the best way to solve developing country's issue?>



<Background Knowledge>

Professor Angus Deaton, who won the Nobel Prize in economics in 2015, pointed out that “the form of aid that can be achieved by increasing aid, like money, supplies and services disregarding the reality of poor countries”, “Even the policy of simply increasing money or supplies can lower the chances of growth in poor countries” Deaton said. For example, if poor countries rely too much on medical aid, they may lose their own ability to raise doctors or nurses and even they cut their budgets by receiving food or medical aid from international organizations, then they may use this extra budget to expand military spending instead of economic growth”.

So what are the ways to build up the self-sustaining power of a developing country or a poor country and what sort of aids can actually bring harm to its people? Let's also think about how it can be solved!

What is the problem with the current aid method and how it could be settled?

<Problem>

1. Search regional, social and national problems according to the current aid methods
2. Find ideas or specific methods to solve or settle the problems with one's own country sight.
3. Let's find ways to make your ideas or solutions effect to the problematic region or country with your country's strength.

<Scoring Guide>

Scoring rubric		score
Problem recognition	Search regional, social and national problems according to the current aid methods	30
Finding Ideas	Finding specific ways or ideas to solve some of the problems you searched	40
Diffusion of ideas	Finding ways to spread ideas or solutions which were designed to solve the problems of one's own region or country	20
Additional point	When you and team members present creative ideas in solving problems. Suggesting a new idea to another country with one's own country of strength	10
Total		100

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<High school student problem>

< Let's predict how the Info-communication Technology will bring changes to our future! >



<Background Knowledge>

For a decade from 1008, local fishermen in India began to negotiate over the phones, which helped stabilize the market prices. As a result, figure for the price fluctuation fell to 79% during the same period. As discussed above, ICT (internet communication technology) refers to a series of activities that facilitate the collection, storage, processing, and transmission of information. Without access to appropriate information and communication technologies, this could widen the gap between the rich and the poor. However, ICTs (information and communication technologies) are enhancing those problems above. They improved the access to information, education, health, and financial services to every one of us. In Korea, for example they give the alarm in the event of danger to the entire nation via mobile phones for our safety.

How can we use information and communication technologies to have a positive impact on the future of poor areas and countries?

<Problem>

1. Let's investigate the problem of lack of access to information and communication technologies.
2. Find ideas or specific methods to solve or make better the problems with one's

own country sight. (*If you and your team members present creative invention ideas in the process of solving the problems above, additional points will be given.)

3. Let's find ways to make your ideas or solutions effect to the problematic region or country with your country's strength.

<Scoring Guide>

Scoring rubric		score
Problem recognition	Investigate problems caused by lack of access to information and communication technology in the region or country concerned	30
Finding Ideas	Finding specific ways or ideas to solve some of the problems searched	40
Diffusion of ideas	Finding ways to spread ideas or solutions which were designed to solve the problems of one's own region or country	20
Additional point	When you and team members present creative ideas in solving problems. Suggesting a new idea to another country with one's own country of strength	10
Total		100

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