

ACTIVITY 8

INVESTIGATING ENVIRONMENTAL POLLUTION AND STUDENT’S SOLUTIONS

I. REASONS:

The pollution of the environment is increasing day by day. It is crucial for everyone to find out the causes and effects of environmental pollution. At the same time, we have to come up with a solution for this problem.

- Students will study the forms of pollution along with their causes and effects.
- Students will research about environmental pollution in Ho Chi Minh city and work out practical solutions.
- Students will observe the surroundings of the school and contribute ideas to the “Our Clean School” movement.
- Students will create usable products from waste materials.

II. PURPOSES:

- ❖ The activities will give students an overview on the causes and effects of environmental pollution and while protecting the environment to the extent of their abilities.
- ❖ Students will play the role of environmentalists observing locations in Ho Chi Minh city and suggest most effective methods to diminish environmental polluting factors.
- ❖ Students will make observations the surrounding environment of the school, then initiate the “Our Clean School” movement by distributing fliers. Also, students will make useful products out of waste materials.
- ❖ Students will learn how to use proposal sentences, giving advice and practicing English environmental vocabulary.
- ❖ Students will learn how to filter information and how to present those information with focus, integrating knowledge of Biology, Geology, English, Arts, and IT. Through that, their creativity and sense of aesthetic.
- ❖ Students will have the chance to practice 21st century skills and become global citizens

III. THE PLAN:

Each group will complete these 3 assignments:

1. Studying about the types of environmental pollutions. (Each group will choose one of the 3 topics below)
 - ✚ Water pollution
 - ✚ Air pollution
 - ✚ Other pollutions (sound pollution, cultivation ground pollution caused by chemicals)
2. Relate to the current state of the environment in Ho Chi Minh city, or your own school to find out the causes of the pollutions and suggest solutions.
3. Create functional products from waste materials, or distributing fliers to raise environmental awareness.

☞ Presentation in English

- ❖ Objective 1 và 2: Give presentation (PowerPoint) with pictures, video clips or illustrative sounds
- ❖ Objective 3: Real products.

IV. PROJECT DEVELOPMENT PROCESS

Time limit: 3 weeks

Associated subjects: Biology, Information Technology, Arts, Geology, English

<p>Expected skills from students before initiating the project</p>	<p>Students need teamwork and PowerPoint skill. Can use English to give presentations about the problems Ability to summarize informations, creativity.</p>
<p>Plans to build the criteria to evaluate students' products</p>	<p>Before executing the project: Students will use the self assessment sheet to evaluate their personal skills, group assignments and personal assignments, criteria.</p> <p>When executing the project: Students will begin making the products based on the criteria to follow the requirements set by teachers: Students' product criteria, Teamwork evaluation.</p> <p>When the products are finished, the students will begin to prepare for the presentation of the products, following the criteria of the presentation skills.</p> <p>When the students finished their products: Using the criteria from the beginning to assist the students in evaluating themselves and others.</p>

<p>Phrases of the project</p>	<p><u>Week 1:</u> preparing for the project</p> <ul style="list-style-type: none"> - Teachers will hand out self evaluation sheet for students, and make proper adjustments to the profiles. - Initiate the project, assign the groups, set requirements, distribute the suggestions, evaluate presentation skills, teamwork and assignment distribution among members. <p><u>Week 2 & 3:</u> Executing the project, with supervision from teachers, guiding the students in designing the products.</p> <ul style="list-style-type: none"> -During the working process of the students, teachers will supervise them via group activity worksheets, and inform them about the specific time to assist them out of class. -Teachers must remind the students about the deadline for the products, examine their products to ensure punctuality, and tell them to prepare for the product presentation.
<p>The plan to collect the products and organizing the presentation of students' products</p>	<p>After completing the products, students will organize a presentation day to introduce their products in front of the class.</p> <p>Students will join the judges to evaluate their own products and other students' products.</p> <p>The products are introduced and stored in the library.They will also be saved into the database on the school's website.</p>

V. METHODS:

- Teamwork.
- Practical method.
- Inquiring method.

Suggesting Questions

❖ General questions

What are the effects of environmental pollution on our lives?

1. How many types of environmental pollution are there?
2. What are the causes of environmental pollution?
3. What must we do to lessen environmental pollution?

❖ Detailed questions

1. Does littering cause environmental pollution?
2. Should plastic boxes and nylon bags be used to store food?
3. Is it advisable for students to come to school on motorbikes?
4. How to maintain public hygiene?
5. What areas are polluted near your school?
6. What causes the pollution near your school?
7. What should students do to solve the pollution problems in the vicinity of their school?

VI. RESULTS

Group 1

- ✚ Water pollution _ Give presentation
- ✚ Play “Let’s keep our environment clean”

Group 2

- ✚ Air pollution _ Give presentation
- ✚ Handmade lanterns

Group 3

- ✚ Sound pollution _ Give presentation
- ✚ Recycled products





A Procedure of Handmade Lanterns



Recycled products