

Student learning outcome (SLO):

<ul style="list-style-type: none"> • Pollution and its types 	<ul style="list-style-type: none"> • Causes of water, air and land pollution
<ul style="list-style-type: none"> • Effects of water, air and land pollution 	<ul style="list-style-type: none"> • Biodegradable and non-biodegradable materials
<ul style="list-style-type: none"> • Ways to reduce pollution 	

Overview:

The main purpose of this lesson is to reinforce the pollution and its impacts on our environment.

Introduction:

Video can be shown to explain environmental pollution.

https://www.youtube.com/watch?v=7qkaz8Chell	
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Material:

The teacher will bring a chart showing different types of pollution.

Keywords:

Pollution, pollutant, environment, biodegradable, ecosystem, earth, industrial, marine, reduce, reuse, recycle.

Activities:

1. Plan a campaign to clean up the area around your school. Clean up, do the work by yourself and most important, do not wait for others to do it for you- it is your environment; put up posters, and talk to people about pollution and its harmful effects.
2. Use learning project to separate biodegradable and non-biodegradable waste and their role to reduce pollution.

3. Make an “ocean in a bottle”. Which liquids will not mix with water?

Materials:

Two transparent bottles, 6 cups of water, a cup of oil and a cup of liquid soap.

Procedure:

- Mix three cups of water with one cup of oil in a bottle.
 - Screw the top on the bottle and shake the mixture. Observe if the two mix together.
 - In another bottle, mix three cups of water with one cup of liquid soap. Observe if the two mix together. Leave the bottle tipped on its side overnight. Is the liquid soap still mixed with water or has it separated?
4. Ask students to make a checklist of their own to play their role in reducing pollution. The checklist may include:
- I will walk on foot or ride a bicycle more often.
 - I will always turn off electrical appliances when not in use.
 - I will plant a tree after every three months.
 - I will not waste wateretc.
5. Use a learning project to enhance the concept of greenhouse effect.

Essential questions:

Before starting the lesson, ask some questions to explore the background knowledge of students:

1. What is an environment?
 2. What are the effects of human activities on environment?
 3. Is environment same?
 4. How pollution is disturbing our environment?
 5. Which steps can be carried out to reduce pollution?
 6. Ask students to give a description about pollutants.
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