

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 1	Day: 1
Chapter 4: Environmental Pollution		Topic: Pollution	

Objective(s):

At the end of this period, the students will be able to:

- Define pollution and its types.

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook

Warm-up Activities

5mins

Before beginning the lesson, ask students to say "Tasmiya."

Ask them: What are components of an environment? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Pollution' on board.
- Tell students they are going to learn about pollution.
- Tell students living things need environment to fulfil their needs. Environment provides food, air, water and shelter to living things.
- So clean environment is of great importance. But certain human activities are making it dirty.
- Tell them 'Pollution' is the introduction of harmful materials into the environment. These harmful materials are called pollutants. Pollutants can be natural, such as volcanic ash.
- Environmental pollution is of three types:
 - Air pollution
 - Water pollution
 - Land pollution
- **Define pollution.** Ask students to answer this question. Wait for their responses.
- Write the answer on the board: 'Any change in the environment which can be harmful to living organisms is called pollution.'
- Tell students to write the answer in their notebooks. Check their work.

Review:

3mins

Explain the main points about pollution.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is pollution?
- What are pollutants?

Homework:

2mins

Ask students to learn the topic and write the answer of Q2 (ii, iii) of Exercise in their notebooks.

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 1	Day: 2
Chapter 4: Environmental Pollution		Topic: Air Pollution	

Objective(s):

At the end of this period, the students will be able to:

- Explain the main causes of water, air and land pollution.
- Explain the effects of water, air and land pollution (unclean/toxic water, smoke, smog, excess CO₂ /other gases, open garbage dumps, industrial waste, etc.) on the environment and life.

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook, Worksheet

Warm-up Activities

5mins

Before beginning the lesson, ask students to say "Tasmiya."

Ask them: What is pollution? What are pollutants? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Air pollution' on board.
- Tell students they are going to learn about air pollution.
- Presence of harmful substance in air is called air pollution. Air pollution is dangerous to living organisms.
- Air pollution is caused by solid and liquid particles and certain gases that are suspended in the air.
- These particles and gases can come from vehicles, factories, dust, pollen, burning of fossil fuel etc.
- They are increasing temperature of Earth. This rise in temperature of Earth is called global warming.
- Air pollution damages the ozone layer in the upper atmosphere which protects us from the harmful radiations of the sun.
- Air pollution also causes lungs, eyes and skin diseases.
- Write two causes of air pollution. Ask students to answer this question. Wait for their responses.
- Write the answer on the board: 'Smoke from factories and vehicles and burning fossil fuel are two causes of air pollution.'
- Tell students to write the answer in their notebooks. Check their work.

Review:

3mins

Explain the main points about air pollution.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is air pollution?
- What is global warming?

- What are effects of air pollution?

Homework:

2mins

Ask students to learn the topic and solve the given worksheet.

Worksheet

Q1. Match the column.

Vehicle Smoke



Deforestation



Factory Fumes



Wildfires



Trash-burning



Fertilizers and Pesticides



Volcanic Eruptions



Lesson Plan

Grade: Five

Subject: Science

Term: 2nd

Time: 40min

Teacher's Name: _____

Week: 1

Day: 3

Chapter 4: Environmental Pollution

Topic: Water Pollution

Objective(s):

At the end of this period, the students will be able to:

- Explain the main causes of water, air and land pollution.
- Explain the effects of water, air and land pollution (unclean/toxic water, smoke, smog, excess CO₂ /other gases, open garbage dumps, industrial waste, etc.) on the environment and life.

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook, Worksheet

Warm-up Activities

5mins

Before beginning the lesson, ask students to say "Tasmiya."

Ask them: What do you know about air pollution? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Water pollution' on board.
- Tell students today we will learn about the water pollution.
- Tell students addition of harmful substances in water is called water pollution. Water pollution is caused by harmful substances which make the water unusable for drinking, cooking, cleaning, swimming and other activities.
- Oil spill is another major reason for water pollution that makes water polluted for marine life.
- Polluted water is dangerous for both humans and animals. It can also reduce plant growth.
- Many water pollutants enter our bodies when we use water for drinking and cooking food. The pollutants enter the digestive tract from there, they can reach other organs in the body and cause various diseases.

Review:

3mins

Explain the main points about water pollution.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is water pollution?
- What are causes of water pollution?
- What are effects of water pollution?

Homework:

2mins

Ask students to learn the topic and solve the given worksheet.

Worksheet

Q1. Match the column.

Sewage



Oil Spill



Rubbish / Trash



Solid Waste



Plastic



Ships



Industrial / Factories Waste



Lesson Plan

Grade: Five

Subject: Science

Term: 2nd

Time: 40min

Teacher's Name: _____

Week: 1

Day: 4

Chapter 4: Environmental Pollution

Topic: Land Pollution

Objective(s):

At the end of this period, the students will be able to:

- Explain the main causes of water, air and land pollution.
- Explain the effects of water, air and land pollution (unclean/toxic water, smoke, smog, excess CO₂ /other gases, open garbage dumps, industrial waste, etc.) on the environment and life.

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook, Worksheet

Warm-up Activities

5mins

Before beginning the lesson, ask students to say "Tasmiya."

Ask them: What do you know about water pollution? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Water pollution' on board.
- Tell students today we will learn about the land pollution.
- Tell them, when harmful substances like garbage and other solid waste mix with the soil, it is called land pollution.
- **Causes:** Land pollution is caused by human activities such as littering, insecticides and fertilizers added by farmers, chemicals disposed of from the factories, oil rigs, and sewage treatment plants.
- **Effects:** Land pollution changes climate pattern. Land pollution also causes different types of diseases in humans.
- Lung cancer, heart disease, respiratory health problems, are few examples. It also destroys habitats of plants and animals.

Review:

3mins

Explain the main points about land pollution.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is land pollution?
- What are causes of land pollution?
- What are effects of land pollution?

Homework:

2mins

Ask students to learn the topic and solve the given worksheet.

Worksheet

Q1. Answer the following questions.

i) Define pollution and its types.

ii) What is air pollution? Write the causes of air pollution.

iii) What is water pollution?

iv) Write the two causes and effects of water pollution.

v) Define land pollution.

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 1	Day: 5
Chapter 4: Environmental Pollution	Topic: Measures to Prevent Environmental Pollution		

Objective(s):

At the end of this period, the students will be able to:

- Explain the main causes of water, air and land pollution.
- Explain the effects of water, air and land pollution (unclean/toxic water, smoke, smog, excess CO₂ /other gases, open garbage dumps, industrial waste, etc.) on the environment and life.

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook

Warm-up Activities

5mins

Before beginning the lesson, ask students to say "Tasmiya."

Ask them: What do you know about land pollution? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Ways to reduce pollution' on board.
- Tell the students you have learnt about different types of pollution.
- Today we will learn some ways to reduce pollution.
- Ask them if they can tell some ways to reduce pollution. Let them respond.
- Tell them we can reduce pollution if:
 - Burning of fossil fuel is reduced.
 - More trees are planted.
 - Use filter in chimneys to reduce emission of harmful gases.
 - Avoid chemical sprays on crops.
 - Maintain your wood stove or fireplace.
 - Avoid waste disposal in open area.
 - Use public transport instead of private vehicles.
 - Spread awareness about how to reduce pollution.
 - Avoid excessive use of pesticides and fertilizers.
- Ask students to open their textbooks and do the activity.

Review:

3mins

Explain the main points about methods to reduce pollution.

Evaluation:

5mins

To check the understanding of students, ask them:

- What are the methods to reduce pollution?

Homework:

2mins

Ask students to learn the topic.