

Lesson Plan

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

Objective(s):

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

- Explain the effects of burning fossil fuels and releasing greenhouse gases in the air.

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 ways to reduce pollution? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Greenhouse Effect and Global Warming' on board.
- Tell the students today we will learn about greenhouse effect and global warming.
- Greenhouse gases act similarly to the glass in a greenhouse they absorb the sun's heat that radiates from the earth's surface, trap it in the atmosphere and prevent it from escaping into space.
- The continuous rise in temperature of the earth's surface due to the trapping of the sun's heat is called global warming.
- Effects of global warming: Change in the climate pattern affect plants, human health and animals.
- Global warming affecting sea level rise, erosion, causing flooding, putting risks to infrastructure and increasing ocean acidity pose major threats.
- Ask students to open their textbook and do the activity.

Review:

3mins

Explain the main points about greenhouse effect.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is greenhouse effect?
- What is global warming?
- What are effects of global warming?

Homework:

2mins

Ask students to learn the topic. Write the answers of Q2 (iv, vii) in their textbooks.

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 2	Day: 2
Chapter 4: Environmental Pollution	Topic: Biodegradable and Non-biodegradable Materials		

Objective(s):

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

- Differentiate between biodegradable and non-biodegradable materials.

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 greenhouse effect? Wait for their responses. Appreciate them for good response.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Biodegradable and Non-biodegradable Materials' on board.
- Tell the students today we will learn about Biodegradable and Non-biodegradable materials.
- Tell students microorganisms decompose dead organisms. In this way materials recycle naturally.
- Biodegradable materials are those materials that can be decomposed naturally.
- Animal remains, plant parts and their waste are biodegradable.
- Non-biodegradable materials cannot decompose naturally. They may take years to rot and decompose into simple materials.
- Plastic, glass, metal scrap is non-biodegradable.
- Ask the students to bring one biodegradable and one non-biodegradable product. Compare and contrast the characteristics of both.
- Discuss what makes them different. Check their work and appreciate them for good response.

Review:

3mins

- Explain the main points about Biodegradable and Non-biodegradable materials.

Evaluation:

5mins

To check the understanding of students, ask them:

- What are biodegradable materials?
- Give some examples of biodegradable materials.
- What are non-biodegradable materials?

- Give some examples of non-biodegradable materials.

Homework:

2mins

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

Worksheet

Q1. Answer the following questions.

i) Differentiate between biodegradable and non-biodegradable materials.

Biodegradable	Non-Biodegradable

ii) Name three greenhouse gases.

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 2	Day: 3
Chapter 4: Environmental Pollution		Topic: Impact of Non-biodegradable Materials	

Students Learning Outcomes:

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

- Explain the impact of non-biodegradable materials on the environment.

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 biodegradable and non-biodegradable materials? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Impact of non-biodegradable materials' on board.
- Tell students you have learnt about biodegradable and non-biodegradable materials in previous class.
- Today we will learn what impacts non-biodegradable materials have on environment.
- Tell students as you know non-biodegradable materials cannot be decomposed easily so they remain in environment for longer period of time which can be harmful.
- They are major cause of land pollution. Excessive use of non-biodegradable pesticides affecting fertility of soil.
- Ask students to tell some impacts of non-biodegradable materials on environment. Let them respond.
- Decomposition of biodegradable waste is accompanied by foul smell which diffuses in the environment and affects the people in nearby areas.
- The non-biodegradable materials are dangerous not only for animals but it is also dangerous for plants and animals living in water.

Review:

3mins

Explain the main points about impacts of non-biodegradable materials.

Evaluation:

5mins

To check the understanding of students, ask them:

- What are impacts of non-biodegradable materials?

Homework:

2mins

Ask students to learn the topic.

Lesson Plan

Grade: Five	Subject: Science	Term: 2 nd	Time: 40min
Teacher's Name: _____		Week: 2	Day: 4
Chapter 4: Environmental Pollution	Topic: How to reduce Non-biodegradable Waste		

Students Learning Outcomes:

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

- Investigate the possibilities and suggest ways to reduce non-biodegradable materials.

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 impacts of non-biodegradable materials on environment? Wait for their responses.

Teaching and Learning Activities:

25mins

- Write down the topic name 'Ways to reduce the impact of non-biodegradable materials' on board.
- Tell students today we are going to learn about how to reduce non-biodegradable materials.
- Tell them we can reduce, reuse, recycle and replace non-biodegradable materials through 4R principle. This is called 4R strategy. Tell them its uses one by one.
- **Reduce:** Use less non-biodegradable materials.
- **Reuse:** Use again and again non-biodegradable materials.
- **Recycle:** Instead of making new material, recycle non-biodegradable materials.
- **Replace:** Exchange non-biodegradable materials with biodegradable materials.
- Ask students to tell how can you reduce non-biodegradable materials? Let them respond. Ask them to prepare a poster and present to class.

Review:

3mins

Explain the main points about ways to reduce the impact of non-biodegradable materials.

Evaluation:

5mins

To check the understanding of students, ask them:

- What is the 4R principle?

Homework:

2mins

Ask students to learn the topic.

Lesson Plan

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

Students Learning Outcomes:

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

- Solve Exercise

Resource Materials:

Chalk/marker, white/blackboard, Science Textbook

Teaching and Learning Activities:

30mins

- Before beginning the lesson, ask students to say "Tasmiya."
- Tell students they are going to solve the exercises of chapter 4.
- Briefly explain all topics and ask questions related to them. Take their responses.
- Ask students to open their textbooks and solve MCQ's.
- Ask the students to solve the Q3 of exercise in their textbooks.
- Ask the students to open their textbooks and help the students to make the project.

Review:

0mins

N/A

Evaluation:

5mins

To evaluate the understanding of students, check their work.

Homework:

5mins

Ask students to revise the exercise of chapter 4.