

LESSON PLAN**SPECIFIC OBJECTIVES**

The students will learn about

- ✧ pollution
- ✧ air pollution, its sources and harmful effects
- ✧ acid rain
- ✧ greenhouse effect, global warming and depletion of ozone layer
- ✧ air pollutants, measures to control air pollution
- ✧ water pollution, its causes and measures to reduce water pollution
- ✧ potable water

TEACHING AIDS

Pictures/charts/models/animations on volcanic eruption, industrial emission; haze over a city; damaged vegetation due to acid rain; planting saplings by school children; choked drain due to water pollution, algal bloom, water treatment plant, different types of water purifiers.

LESSON PLAN

- ✧ The teacher will start the lesson with ‘Science Vocabulary’ section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ The teacher should define the term pollution, and discuss air pollution, its sources, causes and measures to control.
- ✧ The teacher should discuss acid rain, its formation and adverse effects on environment by demonstrating Activities 1 and 2.
- ✧ The teacher should discuss greenhouse effect, global warming, depletion of ozone layer and their consequences.
- ✧ The teacher should discuss water pollution, its causes and measures taken to reduce it. Teacher should demonstrate Activity 3 to test the quality of water from various sources.
- ✧ The teacher should define potable water, discuss the ways applied to purify water.
- ✧ Students should be asked to solve Check Points 1, 2 and 3.

- ✧ The teacher will help the students to solve the questions given in exercises under the head 'Let's Drill Our Skills' and to complete the flowchart given under the head 'Let's Memorise'.

BOOST UP

- ✧ The teacher should motivate students to explore more effects of acid rain.
- ✧ Students should be asked to find out the measures taken to control global warming.

EXPECTED LEARNING OUTCOMES

The students know about

- ✧ pollution, air pollution, its sources and causes.
- ✧ acid rain, its causes and impacts on environment.
- ✧ measures taken to control air pollution.
- ✧ greenhouse effect, global warming and depletion of ozone layer.
- ✧ water pollution, its causes and measures taken to reduce water pollution.
- ✧ potable water and ways to purify water.

EVALUATIVE QUESTIONS

The teacher may ask the following questions for evaluating the understanding of students:

1. Define air pollutants and write two major air pollutants.
2. How is acid rain caused?
3. Mention few measures taken to control air pollution.
4. What is meant by greenhouse effect?
5. Write two causes of water pollution.
6. What is the water fit for drinking called?