

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ✧ waste and its types, i.e., biodegradable and nonbiodegradable waste
- ✧ hazard of waste accumulation
- ✧ waste disposal – dealing with the waste
- ✧ role of an individual and various agencies in waste management

TEACHING AIDS

Pictures/charts/models/animation on biodegradable and nonbiodegradable wastes; birds flying over waste; dustbins for compostable and recyclable wastes; garbage dumping truck; landfilling site; composting; reuse and recycling of paper and nonbiodegradable waste; people and NGOs involved in waste management.

LESSON PLAN

- ✧ 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 waste and tell about its main types by performing Activity 1.
- ✧ The teacher should explain that different wastes take different time to rot.
- ✧ The teacher should discuss the harmful effects of waste accumulation.
- ✧ The teacher should discuss the preparation of compost and vermicompost with the help of Activity 2.
- ✧ The teacher should discuss the 3Rs principle.
- ✧ The teacher should discuss the ways of management of solid and liquid waste.
- ✧ The teacher should discuss the role of Municipal Corporation or Government Agencies and Nongovernmental Organisations (NGOs) in waste management.
- ✧ Students should also be asked to solve Check Points 1 and 2.
- ✧ 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 call students of the class one-by-one and ask them to write one biodegradable waste and one nonbiodegradable waste on the board.
- ✧ The teacher should discuss the difference between domestic waste, community waste, municipal solid waste (MSW), garbage and rubbish.

EXPECTED LEARNING OUTCOMES

The students understand and know the

- ✧ biodegradable and nonbiodegradable waste.
- ✧ hazards of waste accumulation.
- ✧ ways to dispose off waste.
- ✧ 3Rs principle, i.e., reduce, reuse and recycle.
- ✧ advantages and disadvantages of plastics.
- ✧ role of NGOs, Municipal Corporation and Government Agencies in the management of waste.

EVALUATIVE QUESTIONS

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

1. What is meant by waste?
2. What is the difference between biodegradable and nonbiodegradable wastes?
3. How are diseases diarrhoea and cholera caused?
4. What is meant by landfilling?
5. What is the difference between composting and vermicomposting?
6. How can paper be reused?