

LESSON PLAN

SPECIFIC OBJECTIVES

- The students will learn about
- ❖ waste, its sources and types
 - ❖ harmful effects of waste accumulation
 - ❖ plastic menace
 - ❖ waste disposal
 - ❖ practising the 3Rs principle
 - ❖ management of solid and liquid wastes
 - ❖ 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; 3Rs principle; plastic menace; people and NGOs involved in waste management.

LESSON PLAN

- ❖ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ❖ Teacher will define waste and discuss the sources of waste.
- ❖ Teacher will explain different categories of wastes.
- ❖ Now, teacher will ask students to solve Check Point 1.
- ❖ Teacher will discuss the harmful effects of waste accumulation.
- ❖ Teacher will explain the harms of plastic in everyday life.
- ❖ Teacher will discuss the practice of 3Rs principle.
- ❖ With the help of suitable aids, teacher will discuss the management of solid and liquid wastes.
- ❖ Teacher will discuss the role of an individual, Municipal Corporation or Government Agencies and Nongovernmental Organisations (NGOs) in waste management.

- ❖ Now, teacher will ask students to solve Check Point 2.
- ❖ Teacher will make students revise the new terms given under the head 'Know These Terms'.
- ❖ Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

BOOST UP

- ❖ Teacher should demonstrate and explain activities given in the chapter.
- ❖ Teacher should discuss the information given under the head 'Something More'.
- ❖ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
- ❖ 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.
- ❖ harmful effects of waste accumulation.
- ❖ ways to dispose off waste.
- ❖ 3Rs principle, i.e., reduce, reuse and recycle.
- ❖ disadvantages of using plastics.
- ❖ role of an individual, 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. Why is plastic considered as a curse?