

## LESSON PLAN

### SPECIFIC OBJECTIVES

- The students will learn about
- ❖ importance and uses of water
  - ❖ water cycle
  - ❖ forms of water
  - ❖ distribution of water on the earth
  - ❖ water scarcity
  - ❖ groundwater – an important source of water
  - ❖ water management

### TEACHING AIDS

Pictures/charts/models/animations on people fetching water from a river; water cycle; drawing water from a tubewell and a handpump; water table and aquifer, irrigation by tubewell; rainwater harvesting; children planting saplings.

### LESSON PLAN

- ❖ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ❖ Now, teacher will discuss the importance and uses of water.
- ❖ Teacher will define the phenomenon of water cycle.
- ❖ Teacher will discuss the three states of water.
- ❖ Now, teacher will explain the distribution of water on the earth in all three forms.
- ❖ Teacher will discuss the causes of water scarcity.
- ❖ Teacher will discuss the sources of water, i.e., rainwater, surface water, groundwater (infiltration, aquifer and water table).
- ❖ Now, teacher will elaborate depletion of groundwater, importance of groundwater and need to conserve it.
- ❖ Teacher will ask students to solve Check Point 1.

- ✧ Now, teacher will discuss water management explaining the daily uses of water, water harvesting, conservation of water and awareness programmes to save water.
- ✧ 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 ask each student to participate in a debate on 'Importance of water' and suggest some ways to remove scarcity of water.
- ✧ Teacher may also encourage students to make an 'Environment Club' at school to create awareness among school students for managing water resources.

### EXPECTED LEARNING OUTCOMES

The students know about

- ✧ necessity of water.
- ✧ problems faced by people when there is no availability of water.
- ✧ solid, liquid and gaseous states of water.
- ✧ importance of groundwater and its depletion.
- ✧ water management.

### EVALUATIVE QUESTIONS

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

1. Mention importance of water.
2. Explain the adverse effects due to scarcity of water.
3. Write the three states of water.
4. What is meant by water table?
5. In which forms is the surface water found?
6. Mention the major causes of water depletion.
7. What is rainwater harvesting?