

LESSON PLAN**SPECIFIC OBJECTIVES**

The students will learn about

- ✧ importance of water
- ✧ water scarcity
- ✧ states of water
- ✧ sources of water
- ✧ 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

- ✧ The teacher should start the chapter with ‘Gear Up’ by asking the questions given in the section.
- ✧ Now, the teacher should discuss the importance of water and causes of its scarcity.
- ✧ The teacher should discuss the three states of water with the help of Activity 2.
- ✧ The teacher should define the phenomenon of water cycle.
- ✧ The teacher should discuss the sources of water like rainwater, surface water groundwater (infiltration, aquifer and water table).
- ✧ The teacher should elaborate the importance of ground water, need to conserve it and depletion of groundwater.
- ✧ The teacher should explain the distribution of water on the earth in all three forms.
- ✧ The teacher should discuss water management explaining the daily uses of water, water harvesting, conservation of water and awareness programmes to save water.
- ✧ Students should be asked to solve ‘Check Points’ 1 and 2.
- ✧ At last, the teacher will sum up the lesson by going through the points given under the head ‘Wrap Up Now’.

- ✧ The teacher will help the students to solve all the questions given in exercises under the head 'Practice Time' and will also discuss the topics given under the head 'Formative Tasks'.

BOOST UP

- ✧ The teacher should ask each student to participate in a debate on the 'Importance of water'.
- ✧ The teacher should ask each student to suggest some ways to remove scarcity of water.
- ✧ The teacher should give Activity 1 and 3 as home assignments and ask students to discuss the results in the class.
- ✧ The teacher may encourage the 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 the difference between hard and soft water?