

**LESSON PLAN****SPECIFIC OBJECTIVES**

The students will learn about

- ✧ potable water
- ✧ sewage and harmful effects of untreated sewage
- ✧ waste water treatment
- ✧ water pollution and ways to control it

**TEACHING AIDS**

**Pictures/charts/models/animations** on a drought-affected area, a waterbody polluted by detergent discharge; sources of sewage; waste water treatment plant, screening of waste water, grit and sand removal tank, sedimentation tank, aeration tank, etc.

**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 potable water.
- ✧ The teacher should define sewage, its sources and the contaminants found in it.
- ✧ The teacher should discuss the harmful effects of untreated sewage.
- ✧ Now, the teacher should describe waste water treatment and elaborate the processes involved in it. The teacher should also discuss the need of waste water treatment.
- ✧ The teacher should discuss water pollution and the ways to reduce water pollution at different places.
- ✧ The teacher should tell the students 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 assign Activities given in the chapter as home assignment or class assignment and should discuss the results in the class.

- ✧ The students should be encouraged to make an Environment Club at their school for creating awareness to reduce water pollution.

### **EXPECTED LEARNING OUTCOMES**

The students know about

- ✧ potable water.
- ✧ sewage and its sources.
- ✧ harmful effects of untreated sewage.
- ✧ waste water treatment, processes involved and its need.
- ✧ water pollution and various ways to reduce it.

### **EVALUATIVE QUESTIONS**

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

1. Define potable water.
2. Mention organic and inorganic impurities present in sewage.
3. Explain the harmful effects of untreated sewage.
4. What is meant by waste water treatment?
5. Why do we need to treat waste water?
6. Mention few ways that should be adopted to reduce water pollution.