Chapter 8

Materials and Solutions

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- solvent, solute and solution
- soluble and insoluble substances
- methods of separation

Teaching Aids

Pictures/charts/models/animation on the topics given in the chapter.

Lesson Plan

- Teacher will start the chapter with 'Gear Up' section by asking questions on objects heavier or lighter than water and help students to complete the task given in the section.
- Now, teacher will revise basic properties of water which students learnt in the previous class.
- To check the understanding of students about the topic, teacher will ask them to solve 'Check Point 1'.
- Teacher will define a solution and explain its different parts.
- Teacher will demonstrate the method of preparation of a solution.
- By giving examples, teacher will define aqueous and nonaqueous solutions.
- By giving examples, teacher will define soluble and insoluble substances.
- Now, teacher will discuss different methods and their applications used for the separation of parts of a mixture.
- Now, teacher will ask students to solve 'Check Point 2'.
- ♦ At last, teacher will sum up the chapter by going through all the points given under the head 'Wrap up now' and revising the 'New Words'.
- Finally, teacher will help students to solve all the exercises given under the head 'Practice Time'.

Boost Up

- Teacher should demonstrate activities given in the chapter to the students for the better understanding of topic.
- Teacher should encourage students to explore more examples and uses of aqueous and nonaqueous solutions.
- Teacher should encourage students to explore more examples of substances soluble and insoluble in water.

Expected Learning Outcomes

The students understand and know

- solvent, solute and solution.
- method of preparation of a solution.
- aqueous and nonaqueous solutions and their examples.
- soluble and insoluble substances and their examples.
- different methods for separation of parts of a mixture.

Evaluative Questions

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

- **1.** What is a solution?
- 2. What are aqueous and nonaqueous solutions?
- 3. Which substances are insoluble in water?
- **4.** What are different methods for separating parts of a mixture?
- **5.** How is salt obtained from sea water?