

# Chapter 6

## Chemical Reactions

### LESSON PLAN

#### SPECIFIC OBJECTIVES

The students will learn about

- ❖ chemical reaction
- ❖ changes accompanying chemical reactions
- ❖ types of chemical reactions
- ❖ oxides and their classification

#### Teaching Aids

**Pictures/charts/models/animation** on changes observed during chemical reactions; different types of chemical reactions with equations (as given in the chapter); reactivity series of metals; types of oxides

#### Teaching Strategy

- ❖ Teacher will start the chapter by defining chemical reaction and will explain changes that accompany chemical reaction and demonstrate Activity 1.
- ❖ Teacher will explain types of chemical reactions, i.e., combination, decomposition, displacement, double displacement, precipitation, redox and neutralisation reactions by demonstrating Activities 2, 3, 4, 5, 6, 7 and 8.
- ❖ Teacher will define oxides, explain classification of oxides and will demonstrate Activity 9.
- ❖ Teacher will define and explain the reactivity series of metals.
- ❖ Now, teacher will ask the students to solve 'Check Point 1'.
- ❖ At last, teacher will sum up the lesson by going through the points given under the head 'Wrapping It Up'.
- ❖ Teacher will finally help students to answer the questions given under the head 'Test Yourself'.

## Boost Up

- ❖ Teacher can help students to perform the activities given in chapter.
- ❖ Teacher can make students revise new terms given under the head 'Know These Terms'.
- ❖ Teacher can encourage students to learn the facts given under the head 'Something More'.
- ❖ Teacher can show animations related to the topics taught, if possible.
- ❖ Teacher should ask students to give more examples of endothermic and exothermic reactions.
- ❖ Students should be asked to practise writing of chemical equations of chemical reactions.
- ❖ Teacher should encourage students to learn reactivity series of metals.
- ❖ Students should be encouraged to learn more examples of oxides.

## Expected Learning Outcomes

The students understand and know:

- ❖ chemical reaction and the changes observed during chemical reactions.
- ❖ types of chemical reactions.
- ❖ reactivity series of metals.
- ❖ oxides and their classification.

## Evaluative Questions

The teacher should ask the following questions to evaluate the students.

1. Define chemical reaction.
2. What is the reaction in which heat is absorbed called?
3. What is the reaction in which heat is evolved called?
4. Define combination reaction with one example.
5. What happens when electric current is passed through sodium chloride solution?
6. Which is more reactive, calcium or zinc?
7. In which type of reaction reduction and oxidation take place simultaneously?
8. Name two amphoteric oxides.