

Chapter 5

Language of Chemistry

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ❖ chemical reactions
- ❖ conditions affecting the chemical reactions
- ❖ characteristics of chemical reactions
- ❖ chemical equations

Teaching Aids

Pictures/charts/models/animation on chemical reactions, i.e., reactant and product; conditions affecting chemical reactions; characteristics of chemical reactions; chemical equations

Teaching Strategy

- ❖ Teacher will start the chapter by defining chemical reactions and will explain reactants and products of a chemical reaction by demonstrating Activity 1.
- ❖ Teacher will discuss the conditions that affect chemical reactions.
- ❖ Teacher will discuss characteristics of chemical reactions by demonstrating Activities 2, 3, 4 and 5.
- ❖ Now, teacher will ask the students to solve 'Check Point 1'.
- ❖ Teacher will define chemical equations and will explain rules for writing and balancing chemical equations.
- ❖ Teacher will ask students to solve 'Check Point 2'.
- ❖ 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 differences between reactants and products by giving more examples of chemical reactions.
- ❖ Teacher should ask students various conditions that affect chemical reactions.
- ❖ Teacher should ask students the role of catalyst in chemical reactions.
- ❖ Students should be asked to write few reactions in which precipitate is formed.
- ❖ Teacher should also give students more examples on balancing chemical reactions.

Expected Learning Outcomes

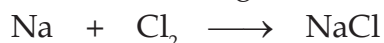
The students understand and know:

- ❖ chemical reactions, reactants and products of a chemical reaction.
- ❖ conditions affecting the chemical reactions.
- ❖ characteristics of chemical reactions.
- ❖ identification of occurrence of a chemical reaction.
- ❖ rules of writing chemical equations and rules to balance them.

Evaluative Questions

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

1. Define a chemical reaction.
2. What are the new substances formed in a chemical reactions called?
3. What happens when electricity is passed through water?
4. Which factor accelerates the rate of a chemical reaction?
5. Which catalyst is used in the formation of ammonia?
6. Balance the following chemical equation:



7. Define a balanced chemical equation.