

LESSON PLAN

SPECIFIC OBJECTIVES

- The students will learn about
- ❖ occurrence of metals and nonmetals in nature
 - ❖ physical and chemical properties of metals and nonmetals
 - ❖ reactivity series of metals
 - ❖ uses of metals and nonmetals

TEACHING AIDS

Pictures/charts/models/animations on ores of metals, objects made of metals, liquid metal and nonmetal, rusted metals; Reactivity series.

LESSON PLAN

- ❖ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ❖ Teacher will tell the names of some metals and nonmetals and discuss their occurrence in nature.
- ❖ Now, teacher will explain physical properties of metals and nonmetals by demonstrating activities given in the chapter.
- ❖ Teacher will ask students to solve Check Point 1.
- ❖ Now, teacher will discuss chemical properties of metals and nonmetals by demonstrating activities given in the chapter.
- ❖ Teacher will discuss the Reactivity Series of metals and its significance.
- ❖ Teacher will discuss various uses of metals and nonmetals in everyday life.
- ❖ Now, teacher will ask students to solve Check Point 2.

- ✧ Teacher will make students revise the new terms given under the head 'Know These Terms'.
- ✧ Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

BOOST UP

- ✧ Teacher should demonstrate and explain activities given in the chapter.
- ✧ Teacher should discuss the information given under the head 'Something More'.
- ✧ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
- ✧ Teacher should discuss the facts given in the table.
- ✧ Teacher should encourage students to learn the names of metals and nonmetals.
- ✧ Students should be encouraged to explore more uses of metals and nonmetals in everyday life and also in different fields of science and technology.
- ✧ Teacher may discuss the role of metals in the progress of a country.

EXPECTED LEARNING OUTCOMES

The students know about

- ✧ metals and nonmetals.
- ✧ physical and chemical properties of metals and nonmetals.
- ✧ reactivity series of metals and its significance.
- ✧ uses of metals and nonmetals.

EVALUATIVE QUESTIONS

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

1. Write names of two metals and two nonmetals.
2. Define ore.
3. What is the difference between ductility and malleability?
4. What is the nature of metallic and nonmetallic oxides?
5. Which metal is the best conductor of electricity?
6. Name one metal and one nonmetal which are liquid at room temperature.
7. What is meant by displacement reaction? Mention one example of it.
8. Which metal is the most reactive and which one is the least reactive in reactivity series of metals?