

LESSON PLAN

SPECIFIC OBJECTIVES

- The students will learn about
- ❖ conduction of electric current through liquids
 - ❖ LED
 - ❖ electrical conductivity of water
 - ❖ electrolysis and its applications
 - ❖ electroplating and its application

TEACHING AIDS

Pictures/charts/models/animations on an electric circuit consisting of cell, bulb and key; coloured LED; electroplated objects, chrome-plated objects, silver-plated objects, etc.

LESSON PLAN

- ❖ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ❖ Now, teacher will define conductors of electricity and explain conduction of electric current through liquids by demonstrating activities given in the chapter.
- ❖ Teacher will discuss LED and its uses.
- ❖ Teacher will discuss electrical conductivity of impure and pure water.
- ❖ Now, teacher will ask students to solve Check Point 1.
- ❖ Teacher will explain the process of electrolysis by demonstrating activity given in the chapter.
- ❖ Now, teacher will discuss applications of electrolysis.
- ❖ Teacher will define process of electroplating, factors affecting it and its applications.
- ❖ 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 ask students to learn more names of good conductors and bad conductors of electricity.
- ✧ Students should be asked to explore more applications of LED, electrolysis and electroplating in everyday life.

EXPECTED LEARNING OUTCOMES

The students know about

- ✧ good and bad conductors of electricity.
- ✧ conduction of electric current through liquids.
- ✧ LED
- ✧ electrical conductivity of impure and pure (distilled) water.
- ✧ applications of electrolysis and electroplating.

EVALUATIVE QUESTIONS

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

1. Define good conductors of electricity.
2. Write two examples of bad conductors of electricity.
3. Why is distilled water called poor conductor of electricity?
4. What is an LED?
5. What is the difference between electrolysis and electrolyte?
6. What is voltameter?
7. Why is electroplating of a metal done?