LESSON PLAN

SPECIFIC OBJECTIVES	_ ,
The students will learn about	1
♦ light – a form of energy	I
reflection of light	
 multiple reflections and their applications 	- 1
the colours of sunlight	·
the human eye-structure, functions, defects and care	ı
eyes of other animals	
 visually challenged people 	J

TEACHING AIDS

Pictures/charts/models/animations on laws of reflection, regular and irregular reflections, multiple reflections by plane mirror, kaleidoscope, periscope; dispersion of white light, rainbow, structure of human eye, image formation by human eye; eyes of other animals (as given in the chapter); Braille script.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ♦ Teacher will define light and discuss its characteristics.
- ♦ Teacher will discuss transparent, translucent and opaque objects.
- ♦ Teacher will define reflection of light and will also explain regular and irregular reflections and their significance.
- ♦ Teacher will define laws of reflection by demonstrating activity given in the chapter.
- ♦ Now, teacher will ask students to solve Check Point 1.
- ♦ Teacher will discuss multiple reflections by plane mirror and demonstrate related activities given in the chapter.

- Teacher will discuss applications of multiple reflections by explaining working of kaleidoscope and periscope.
- ♦ Teacher will discuss the colours of sunlight and the phenomenon of dispersion of light with the help of activity given in the chapter.
- ♦ Then, teacher will ask students to solve Check Point 2.
- Now, teacher will explain the structure and working of human eye, defects of vision and care of eyes.
- Teacher will discuss features of eyes of other animals.
- ♦ Teacher will discuss visually challenged people, Braille script and historical background of its development.
- ♦ Now, teacher will ask students to solve Check Point 3.
- ♦ 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.
- ♦ Students should be encouraged to keep their eyes healthy.
- Students should be asked to observe reflection of light and dispersion of light in the nature and find their applications in everyday life.
- Teacher should discuss the challenges faced by visually challenged people in their everyday life and our duties towards them.

EXPECTED LEARNING OUTCOMES

The students know about

- light and its characteristics.
- opaque, transparent and translucent objects.
- reflection of light and laws of reflection.
- regular and irregular or diffused reflections.
- multiple reflections by a plane mirror.
- applications of multiple reflections kaleidoscope and periscope.
- different colours of sunlight dispersion of light.
- structure and working of the human eye, eye defects and care of eyes.
- special features of eyes of other animals.
- visually challenged people, Braille script.

EVALUATIVE QUESTIONS

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

- 1. Define light.
- **2.** Write laws of reflections.
- 3. Mention the differences between regular and diffused reflections.
- 4. What is multiple reflection?
- **5.** What is periscope used for?
- **6.** When is a rainbow formed?
- 7. Which lens is used to rectify myopia?
- **8.** What is Braille script?