## LESSON PLAN

|  | The students will learn about <br> $\diamond$ light - a form of energy <br> l $\stackrel{\rightharpoonup}{\text { reflection of light }}$ <br> $\mid \star$ multiple reflections and their applications <br> । the colours of sunlight <br> « the human eye-structure, functions, defects and care <br> $\mid \stackrel{\text { l eyes of other animals }}{ }$ <br> । $\diamond$ visually challenged people |
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## 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

$\diamond$ 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.
$\triangleleft$ Teacher will discuss transparent, translucent and opaque objects.
$\diamond$ Teacher will define reflection of light and will also explain regular and irregular reflections and their significance.
$\diamond$ Teacher will define laws of reflection by demonstrating activity given in the chapter.
$\diamond$ Now, teacher will ask students to solve Check Point 1.
$\star$ Teacher will discuss multiple reflections by plane mirror and demonstrate related activities given in the chapter.
$\diamond$ Teacher will discuss applications of multiple reflections by explaining working of kaleidoscope and periscope.
$\stackrel{\text { Teacher will discuss the colours of sunlight and the phenomenon of dispersion of light with }}{\text { a }}$ the help of activity given in the chapter.
$\stackrel{\rightharpoonup}{ }$ Then, teacher will ask students to solve Check Point 2.
$\triangleleft$ Now, teacher will explain the structure and working of human eye, defects of vision and care of eyes.
$\diamond$ Teacher will discuss features of eyes of other animals.
$\diamond$ Teacher will discuss visually challenged people, Braille script and historical background of its development.
ヶ Now, teacher will ask students to solve Check Point 3.
$\diamond$ Teacher will make students revise the new terms given under the head 'Know These Terms'.
$\stackrel{\rightharpoonup}{ }$ Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

## BOOST UP

$\diamond$ Teacher should demonstrate and explain activities given in the chapter.
$\diamond$ Teacher should discuss the information given under the head 'Something More'.
$\diamond$ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
$\diamond$ Students should be encouraged to keep their eyes healthy.
$\stackrel{\diamond}{ }$ Students should be asked to observe reflection of light and dispersion of light in the nature and find their applications in everyday life.
$\stackrel{\text { Teacher should discuss the challenges faced by visually challenged people in their everyday }}{ }$ life and our duties towards them.

## EXPECTED LEARNING OUTCOMES

The students know about
$\diamond$ light and its characteristics.
$\diamond$ opaque, transparent and translucent objects.
$\stackrel{\rightharpoonup}{r}$ reflection of light and laws of reflection.
$\diamond$ regular and irregular or diffused reflections.
$\star$ multiple reflections by a plane mirror.
$\diamond$ applications of multiple reflections - kaleidoscope and periscope.
$\diamond$ different colours of sunlight - dispersion of light.
$\stackrel{\rightharpoonup}{ }$ structure and working of the human eye, eye defects and care of eyes.
$\diamond$ special features of eyes of other animals.
$\diamond$ 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?
