

Chapter 10

Light and Shadows

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ❖ transparent, translucent and opaque objects
- ❖ formation of shadow
- ❖ formation of day and night
- ❖ eclipses

Teaching Aids

Pictures/charts/models/animation on the topics given in the chapter.

Lesson Plan

- ❖ Teacher will start the chapter with 'Gear Up' section and help students in doing the activity given in the section.
- ❖ Now, teacher will define light and explain its main properties.
- ❖ With the help of suitable teaching aids, teacher will define opaque, transparent and translucent objects.
- ❖ To check the understanding of students about the topic, teacher will ask them to solve 'Check Point 1'.
- ❖ Now, teacher will define shadow, its formation and conditions necessary for the formation of shadow.
- ❖ Teacher will explain shadow formation at different times during the day.
- ❖ Now, teacher will explain formation of day and night.
- ❖ Teacher will define eclipses and explain formation of solar and lunar eclipses.
- ❖ Now, teacher will ask students to solve 'Check Point 2'.
- ❖ At last, teacher will sum up the chapter by going through all the points given under the head 'Wrap up now' and revising the 'New Words'.
- ❖ Finally, teacher will help students to solve all the exercises given under the head 'Practice Time'.

Boost Up

- ❖ Teacher should demonstrate the activities given in the chapter to explain formation of shadow, day and night, and eclipses.
- ❖ Teacher should encourage students to carry out activities themselves for testing opaque, translucent and transparent objects.
- ❖ Teacher should warn students for not looking at solar eclipse directly with the naked eye, instead use some safety devices and that too in the presence of elders only.

Expected Learning Outcomes

The students understand and know

- ❖ light and its properties.
- ❖ transparent, translucent and opaque objects.
- ❖ shadow and conditions necessary for shadow formation.
- ❖ formation of day and night.
- ❖ formation and types of eclipses.
- ❖ shadow formation at different times during the day.

Evaluative Questions

Teacher may ask the following questions for evaluating learning and understanding of students:

1. What is light?
2. What are translucent objects? Give examples.
3. What is a shadow?
4. How does a shadow form?
5. When do solar and lunar eclipses occur?