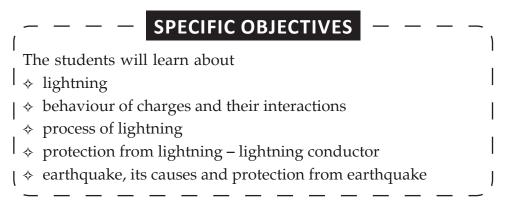
LESSON PLAN



TEACHING AIDS

Pictures/charts/models/animations on destruction caused by flood, tornado and earthquake; lightning, lightning conductor fitted on a building, charges in clouds, protection during lightning; structure of earth, major tectonic plates of the earth, movement of earth's plates, focus and epicenter of an earthquake, seismic zones of India, seismograph, protection during earthquake, etc.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ♦ Teacher will discuss different natural phenomena and the harms they cause.
- Now, teacher will discuss lightning and explain the behaviour of charges by demonstrating activities given in the chapter.
- ♦ Now, teacher will discuss electricity by explaining flow of charge.
- ♦ Teacher will explain the structure and working of an electroscope and how to test a charge with an electroscope.
- ♦ Teacher will also discuss characteristics of charges.
- ♦ Teacher will ask students to solve Check Point 1.
- Now, teacher will explain the process of lightning and the measures for protection from lightning.
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- Teacher will also discuss the structure and function of a lightning conductor.
- Teacher will ask students to solve Check Point 2. ∻
- Now, teacher will define earthquake and its causes by explaining the structure of the earth. \diamond
- Teacher will discuss seismic zones and earthquake-prone areas in India. ∻
- أ Teacher will explain intensity of earthquake on Richter scale, its measuring instrument (seismograph) and measures taken to protect against earthquakes.
- 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. ∻
- Teacher should encourage students to study some more natural phenomena which cause harms to human life and property.
- Students should be made aware of the measures taken to protect against earthquakes and lightning.

EXPECTED LEARNING OUTCOMES

The students know about

- ♦ natural phenomena.
- ♦ electric charge, behaviour of charges, flow of charge and electroscope.
- ♦ lightning, cause of lightning, protection against lightning lightning conductor.
- ♦ earthquake and causes of earthquake.
- ♦ earthquake-prone areas.
- ♦ intensity of earthquakes.
- Richter scale and seismograph. ∻
- ♦ measures taken to protect against earthquakes.

EVALUATIVE QUESTIONS

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

- 1. Define natural phenomena.
- 2. What is lightning? Who discovered nature of lightning?
- 3. What is the use of an electroscope?
- 4. Write a short note on lightning conductor.
- 5. Explain the layers of the earth.
- 6. What is the cause of an earthquake?
- 7. Which scale and instrument is used to measure the intensity of an earthquake?