# **SPECIFIC OBJECTIVES**

The students learn about

- \* natural disasters their occurrence and effects
- earthquakes, their occurrence, measurement and damages | caused by them
- volcanoes, their types and effects
- ↓ ★ tsunami, floods and droughts, their occurrence and effects

#### TEACHING AIDS

Pictures of damages caused by an earthquake, tsunami, flood and drought; pictures/animation on occurring of an earthquake, tsunami, flood, drought and eruption of a volcano; picture/ animation of a seismograph and its working

#### LESSON PLAN

- Teacher will start the chapter by giving a brief idea on natural disasters and ask students some general questions about them.
- \* Now, teacher will explain the occurrence and results of some natural disasters.
  - Earthquakes
    - □ With the help of teaching aids, teacher will explain what an earthquake is, why and how it occurs and the damages it causes.
    - **Teacher** will discuss about the scale and instrument for measuring an earthquake.
    - □ Teacher will also explain the terms 'seismology' and 'seismologists'.
  - **Volcanoes:** With the help of teaching aids, teacher will define a volcano, its vent, magma and lava. Teacher will also discuss its types.
- \* Teacher will ask students to solve 'Checkpoint 1'.
  - **Tsunami:** With the help of teaching aids, teacher will define tsunami, its causes and damages.
  - Floods: Teacher will define waterlogging and flood, and will discuss their causes.
    - □ With the help of teaching aids, teacher will discuss the damages caused by flood and the ways to prevent them.

- **Droughts:** Teacher will define drought and discuss its causes.
  - □ With the help of teaching aids, teacher will discuss the damages caused by drought, and the ways to prevent drought.
- Now, to check the understanding of students about the chapter, teacher will ask them to solve the 'Checkpoint 2'.
- At last, teacher will make students revise the new terms given in 'Science Vocabulary' and sum up the lesson by going through the points given in 'Wrapping it up'.
- \* Now, teacher will help students to solve the questions given in 'Exercises'.

### BOOST UP

- Teacher should discuss the conversation of Annu and Mannu given in bubbles in between the topics.
- Teacher should discuss the information given in the 'Knowledge Desk' at various places in the chapter.
- Teacher should help students to find the answers of questions given in 'Think Zone' and encourage to do activities or projects given in 'Beyond the Text'.
- Teacher should ask students to explore the names of the states where these disasters have occurred.
- \* Teacher should discuss some other natural disasters that occur in the world.
- Teacher should prepare lists of some major disasters such as major earthquakes, droughts, floods, etc. and the damage caused by them.
- Teacher should discuss about the rescue and help that should be given to the victims of disasters.

# EXPECTED LEARNING OUTCOMES

The students know about

- some natural disasters, their occurrence and effects.
- earthquakes, their causes, measurement and damages caused by them.
- volcanoes and their types.
- causes of tsunami, floods and droughts, and damage caused by them.
- prevention of floods and droughts.

# EVALUATIVE QUESTIONS

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

- 1. What is a natural disaster?
- 2. What are the causes of droughts?
- 3. On which scale is an earthquake measured?
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- 4. What are seismic waves?
- 5. Which instrument is used for measuring an earthquake?
- **6.** What is seismology?
- 7. What is the vent of a volcano?
- 8. What are lava and magma?
- 9. What are active and dormant volcanoes?
- **10.** What are extinct volcanoes?
- **11.** What do you mean by waterlogging?
- **12.** What are the causes of flood?