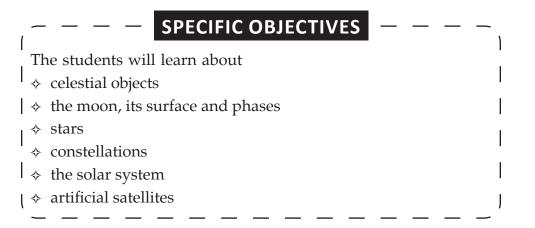
LESSON PLAN



TEACHING AIDS

Pictures/charts/models/animations on phases and surface of the moon; polestar; Ursa Major, different position of Ursa Major around pole star, Ursa Minor, Orion, Cassiopea; solar system and its planets; asteroid belt; meteors; comets, different positions of comet around the sun, some artificial satellites.

LESSON PLAN

- ♦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ♦ Teacher will discuss the features of celestial objects.
- ♦ Teacher will discuss the features of surface of moon and explain phases of the moon.
- ♦ Now, teacher will ask students to solve Check Point 1.
- ♦ Teacher will define a star and explain features of the sun.
- ♦ Teacher will define a constellation and discuss some constellations and pole star.
- ♦ Now, teacher will ask students to solve Check Point 2.
- Teacher will discuss solar system and explain the features of its planets, asteroids, meteors, meteorites and comets.
- ♦ Teacher will discuss artificial satellites and their applications.
- ♦ 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 ask students to explore differences between natural and artificial satellites.
- Teacher should ask students to explore some more names of constellations, other than those given in the book.

EXPECTED LEARNING OUTCOMES

The students know about

- ♦ celestial or heavenly bodies.
- ♦ features of the moon-its surface and different phases.
- \diamond stars and the sun.
- ♦ constellations and pole star.
- ♦ solar system and its planets.
- ♦ dwarf planets, asteroids, meteors, meteorites and comets.
- ♦ ozone layer and its importance.
- ♦ artificial satellites and their applications, India's first artificial satellite.

EVALUATIVE QUESTIONS

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

- 1. Define heavenly objects.
- 2. What is the difference between waxing and waning moon?
- 3. What is meant by lunar month?
- 4. How many planets does the solar system have?
- 5. Which planet is also called evening star?
- 6. Write the differences between meteors and meteorites.
- 7. Explain artificial satellites.
- 8. What are shooting stars?