

5th class Science

Ch- 13 The sun, the Moon and the Earth

Q/A

1. Explain the structure of earth with the help of suitable diagram.

Ans. The Earth is spherical in shape .

It has three main layers. The crust, mantle and the core. The crust is the outer layer, the mantle is the middle and the core is at center.

Draw diagram given on page no. 174

Layers of earth.

2. Explain the phases of the moon with the help of a well labelled diagram.

Ans. The different phases of moon are:-

1. **New Moon**- The moon is not visible from the earth

2. **Waxing crescent**- A small part of the moon is visible.

3. **Half Moon** - Half of the Moon is visible in the sky.

4. **Waxing gibbous**- More than half of the Moon is visible.

5. **Full Moon** - The entire face of the Moon is visible from the Earth.

6. **Waning gibbous**- More than half of the moon is still visible after the full moon, but it is decreasing .

7. **Third quarter** - Half of the moon is visible again, but now it is decreasing in size as it moves towards new moon.

8. **Waning crescent** - A small part of the Moon is visible as it continues to decrease in size before the new moon.

Draw diagram of phases of moon given on page no. 176.

3. Write a short note on solar and lunar eclipse with the help of well labeled diagrams.

Ans. Solar eclipse- During solar eclipse, the moon moves between the sun and the Earth blocking the sunlight and forming a shadow on the earth.

Draw diagram of solar eclipse

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Lunar eclipse- During a lunar eclipse, the earth moves between the sun and the moon, blocking the sunlight from reaching the moon and casting a shadow on it.
Draw diagram of solar eclipse

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4. Write a short note on the contribution of great astronomers of India.

Ans. **1.Aryabhata** - He stated that the earth rotates on its axis and explained how eclipses occur.

2. **Meghnad Saha** - He described the physical and chemical conditions of stars.

3. **Subrahmanyan Chandrasekhar**- He won noble prize for Physics in 1983 for his research on the structure of stars.

4. **Dr. APJ Abdul kalam** - He helped to design India's first satellite to orbit the Earth, SLV-3.

5. **Vikram Sarabhai** - He helped to launch India's first satellite in 1975. He also worked on nuclear power.

6. **Bhaskar II** - He calculated that the Earth takes approximately 365.2588 days to revolve around the sun.