

Rotation and Revolution of the Earth

Chapter 3: Rotation and Revolution of the Earth · Topic 1

Key Concept

Earth rotates on its axis once every 24 hours, causing the cycle of day and night as different parts face or turn away from the Sun.

Earth revolves around the Sun once every 365.25 days, completing one full orbit that we call a year.

The tilt of Earth's axis (about 23.5°) combined with its revolution causes the changing seasons, as different hemispheres receive varying sunlight.

Understanding rotation and revolution helps explain daily and yearly patterns we experience, like sunrise, sunset, and seasonal changes.

Quick Revision Notes

- Earth rotates on its axis every 24 hours.
- This causes day and night.
- Earth revolves around the Sun every 365.25 days.
- This completes one year.
- Earth's axis is tilted about 23.5° .
- This tilt, with revolution, causes seasons.
- Different hemispheres get varying sunlight.
- Rotation and revolution explain daily and yearly patterns.

Practice Questions

- 1 Discuss why we experience day and night.
- 2 Explain why a year has about 365 days.
- 3 Research why Earth's axis is tilted.
- 4 Discuss how the tilt causes seasons.
- 5 Create a diagram showing Earth's rotation.
- 6 Explain revolution and rotation in your own words.