

Motions of the Earth

Chapter 2: Motions of the Earth · Topic 1

Key Concept

Rotation is the Earth spinning on its axis, completing one full rotation every 24 hours, causing day and night.

Revolution is the Earth orbiting around the sun, taking approximately 365.25 days to complete one full orbit, causing a year.

The tilt of Earth's axis, combined with its revolution around the sun, causes the changing seasons throughout the year.

Understanding Earth's motions helps us understand basic astronomy concepts like day length, years, and seasonal changes.

Quick Revision Notes

- Rotation: Earth spins on its axis.
- One rotation = 24 hours, causes day/night.
- Revolution: Earth orbits the sun.
- One orbit $\approx$ 365.25 days = one year.
- Earth's axis tilt matters.
- Combined with revolution, causes seasons.
- This explains day, year, seasons.
- It's a basic astronomy concept.

Practice Questions

- 1 Discuss the difference between rotation and revolution.
- 2 Draw a diagram showing Earth's rotation.
- 3 Draw a diagram showing Earth's revolution.
- 4 Discuss why we have seasons.
- 5 Research how long Earth takes to rotate and revolve.
- 6 Explain rotation and revolution in your own words.