

How Seasons Occur - Part 1

Chapter 1: How Seasons Occur - Part 1 · Topic 1

Key Concept

Earth's axis is tilted at approximately 23.5 degrees, which remains constant as Earth orbits the sun throughout the year.

As Earth revolves around the sun, different hemispheres tilt towards or away from the sun at different times of the year.

When the Northern Hemisphere tilts towards the sun, it experiences summer, while the Southern Hemisphere experiences winter simultaneously.

This combination of revolution and axial tilt is the primary reason for the changing seasons throughout the year.

Quick Revision Notes

- Earth's axis tilted ~23.5 degrees.
- This tilt remains constant during orbit.
- Revolution + tilt causes seasons.
- Hemispheres tilt towards/away from sun.
- N. Hemisphere towards sun = summer.
- S. Hemisphere away = winter simultaneously.
- This combination causes season changes.
- It happens throughout the year.

Practice Questions

- 1 Draw a diagram showing Earth's tilt and orbit.
- 2 Discuss why the two hemispheres have opposite seasons.
- 3 Research the exact tilt angle of Earth's axis.
- 4 Discuss what season your hemisphere is in now.
- 5 Explain how revolution differs from rotation.
- 6 Discuss why the tilt remains constant.