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What is Climate

Understanding Climate: The Long-Term Weather Patterns of Earth

DEFINITION

> Climate refers to the average weather conditions in a specific area over a long time. It includes temperature, humidity, and precipitation patterns.

KEY CONCEPTS

Weather vs. Climate

Weather describes short-term atmospheric conditions, while climate is about long-term trends.

Climate Zones

Different areas have distinct climate zones, like tropical, temperate, and polar.

Factors Affecting Climate

Latitude, altitude, and ocean currents all influence a region's climate.

Global Warming

Global warming refers to the increase in Earth's average temperature due to human activities.

Climate Change

Climate change involves long-term shifts in temperatures and weather patterns, often linked to global warming.

EXAMPLES

→ The Sahara Desert has a hot, dry climate.

→ Tropical rainforests experience heavy rainfall and warm temperatures year-round.

→ The Arctic region has a cold climate with long winters.

MEMORY TIPS

★ Remember 'Climate is the long-term weather' to differentiate from weather.

★ Use the acronym 'CLIMATE' - Conditions, Long-term, Influences, Mean, Average, Temperature, Environment.

★ Think of climate zones as 'Tropical, Temperate, Polar' to recall major types.

COMMON MISTAKES

✗ Confusing weather with climate.

✗ Assuming climate is the same everywhere.

✗ Not recognizing human impact on climate change.

QUICK RECAP

Climate is the average weather over a long period, influenced by various factors. Understanding climate zones and the difference between weather and climate is essential for geography.