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What is Climate Change Basics

Understanding Climate Change: Our Planet's Temperature Challenge

DEFINITION

> Climate change refers to long-term changes in temperature and weather patterns on Earth. It is primarily caused by human activities that increase greenhouse gases in the atmosphere.

KEY CONCEPTS

Greenhouse Effect

The greenhouse effect is when gases trap heat from the sun, warming the Earth.

Global Warming

Global warming is the rise in Earth's average temperature due to increased greenhouse gases.

Carbon Footprint

A carbon footprint measures the total greenhouse gases produced by an individual or activity.

Renewable Energy

Renewable energy comes from sources that naturally replenish, like solar and wind power.

Climate Action

Climate action involves steps taken to reduce climate change and its impacts.

EXAMPLES

→ Using public transport instead of cars to reduce carbon emissions.

→ Planting trees to absorb carbon dioxide from the atmosphere.

→ Using energy-efficient appliances to save electricity.

MEMORY TIPS

★ Remember 'G-G-C-R' for Greenhouse, Global warming, Carbon footprint, Renewable energy.

★ Think of 'WARM' - Warming, Action, Renewable, Mitigation for climate change concepts.

★ Visualize a 'green planet' to associate with eco-friendly practices.

COMMON MISTAKES

✗ Confusing weather with climate; weather is short-term, climate is long-term.

✗ Underestimating the impact of individual actions on climate change.

✗ Believing climate change is only a future issue, not affecting us now.

QUICK RECAP

Climate change is the long-term alteration of temperature and weather patterns. It is mainly driven by human activities that increase greenhouse gases. Taking action now is crucial to mitigate its effects.