

Greenhouse Effect and Global Warming

Chapter 4: Greenhouse Effect and Global Warming · Topic 1

Key Concept

Greenhouse gases, like carbon dioxide and methane, trap heat from the Sun, similar to how a greenhouse keeps plants warm.

This natural greenhouse effect is essential for life, keeping Earth's average temperature suitable for living things.

Human activities, like burning fossil fuels and deforestation, have increased greenhouse gas levels, intensifying the greenhouse effect.

This intensified effect causes global warming, leading to rising temperatures, melting ice caps, and changing weather patterns worldwide.

Quick Revision Notes

- Greenhouse gases trap heat in the atmosphere.
- Examples: carbon dioxide, methane.
- This is similar to how a greenhouse works.
- The natural greenhouse effect is essential for life.
- Human activities increase greenhouse gas levels.
- Burning fossil fuels and deforestation contribute.
- This intensifies the greenhouse effect.
- It causes global warming and climate change.

Practice Questions

- 1 Discuss how the greenhouse effect works.
- 2 Research a human activity that increases greenhouse gases.
- 3 Explain the difference between the natural and intensified greenhouse effect.
- 4 Discuss an effect of global warming.
- 5 Research a way to reduce greenhouse gas emissions.
- 6 Create a poster explaining the greenhouse effect.