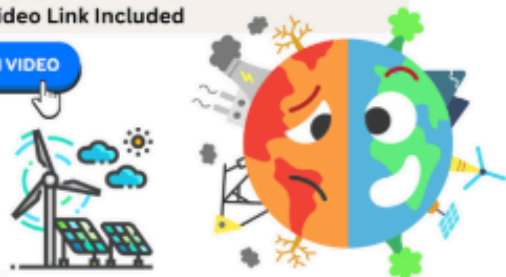


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Crash Course CLIMATE AND ENERGY #1: What is Climate Change

Name: _____ Date: _____

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1. Climate change is both a _____ problem and a systemic one.
2. Greenhouse gases like carbon dioxide trap _____ in Earth's atmosphere.
3. The process of gases trapping heat in the atmosphere is called the _____ effect.
4. Even small increases in carbon dioxide can lead to severe _____ changes.
5. Scientists use _____ to study the atmosphere from hundreds of thousands of years ago.
6. Earth has gone through extreme cold periods called _____ Earth events.
7. Burning _____ fuels has significantly increased greenhouse gas emissions.
8. The _____ revolution marked a major shift in energy use, contributing to climate change.
9. Weather describes short-term atmospheric conditions, while _____ refers to long-term trends.
10. Methane, carbon dioxide, and water vapor are examples of _____ gases.
11. Average global temperatures have increased faster in the last 200 years than ever in recorded _____.
12. Greenhouse gases absorb and re-emit _____ radiation, warming the planet.
13. Human activity has caused warming at an _____ rate.
14. Scientists use _____ models to predict future climate and weather trends.
15. The melting of ice caps and rising sea levels are examples of _____ change impacts.

Crash Course CLIMATE AND ENERGY #1: What is Climate Change KEY

1. Climate change is both a **collective** problem and a systemic one.
2. Greenhouse gases like carbon dioxide trap **heat** in Earth's atmosphere.
3. The process of gases trapping heat in the atmosphere is called the **greenhouse** effect.
4. Even small increases in carbon dioxide can lead to severe **climate** changes.
5. Scientists use **ice cores** to study the atmosphere from hundreds of thousands of years ago.
6. Earth has gone through extreme cold periods called **Snowball** Earth events.
7. Burning **fossil** fuels has significantly increased greenhouse gas emissions.
8. The **industrial** revolution marked a major shift in energy use, contributing to climate change.
9. Weather describes short-term atmospheric conditions, while **climate** refers to long-term trends.
10. Methane, carbon dioxide, and water vapor are examples of **greenhouse** gases.
11. Average global temperatures have increased faster in the last 200 years than ever in recorded **history**.
12. Greenhouse gases absorb and re-emit **infrared** radiation, warming the planet.
13. Human activity has caused warming at an **unprecedented** rate.
14. Scientists use **forecasting** models to predict future climate and weather trends.
15. The melting of ice caps and rising sea levels are examples of **climate** change impacts.

15 Questions

Answer Key Included

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