

Climate Change Quiz Answer Key PDF

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What are some ways individuals can reduce their carbon footprint?

Individuals can reduce their carbon footprint by using energy-efficient appliances, reducing car travel, recycling, and supporting renewable energy sources.

Explain the difference between climate change mitigation and adaptation.

Mitigation involves reducing or preventing greenhouse gas emissions, while adaptation involves adjusting to the effects of climate change to minimize harm.

How does climate change affect biodiversity and ecosystems?

Climate change can lead to habitat loss, altered food chains, and increased extinction rates, disrupting ecosystems and reducing biodiversity.

Which of the following is a renewable energy source?

- A. Coal
- B. Natural Gas
- C. Solar Power ✓**
- D. Nuclear Power

What is the main cause of sea-level rise?

- A. Increased rainfall
- B. Melting ice caps and glaciers ✓**
- C. Expansion of seawater as it warms ✓**
- D. Both B and C

What is the difference between climate and weather?

- A. Climate is short-term; weather is long-term.
- B. Climate is long-term; weather is short-term. ✓**
- C. Climate and weather are the same.
- D. Climate is unpredictable; weather is predictable.

What is the primary focus of climate change mitigation?

- A. Reducin emissions ✓**
- B. Building sea walls
- C. Educating the public
- D. Relocating populations

Which of the following gases are considered greenhouse gases? (Select all that apply)

- A. Carbon Dioxide ✓**
- B. Methane ✓**
- C. Oxygen
- D. Nitrous Oxide ✓**

Which of the following are considered renewable energy sources? (Select all that apply)

- A. Wind ✓**
- B. Solar ✓**
- C. Oil
- D. Hydroelectric ✓**

What are potential human impacts of climate change? (Select all that apply)

- A. Health risks ✓**
- B. Economic growth
- C. Food scarcity ✓**
- D. Water scarcity ✓**

What are some observable impacts of climate change? (Select all that apply)

- A. Rising sea levels ✓**
- B. Increased biodiversity
- C. More frequent extreme weather events ✓**
- D. Stable global temperatures

Explain the role of the Intergovernmental Panel on Climate Change (IPCC) in addressing climate change.

The IPCC provides scientific assessments on climate change, its impacts, and potential adaptation and mitigation strategies, guiding international policy decisions.

Describe how deforestation contributes to climate change.

Deforestation increases atmospheric CO₂ levels by reducing the number of trees that can absorb CO₂, and it releases stored carbon when trees are cut or burned.

Discuss the economic challenges that countries face when implementing climate change policies.

Challenges include balancing economic growth with environmental sustainability, funding renewable energy projects, and managing the transition for industries reliant on fossil fuels.

Which of the following is a natural cause of climate change?

- A. Deforestation
- B. Volcanic eruptions ✓**
- C. Fossil fuel burning
- D. Industrial emissions

What is the primary greenhouse gas responsible for global warming?

- A. Methane
- B. Nitrous Oxide
- C. Carbon Dioxide ✓**
- D. Ozone

Which technologies are aimed at achieving carbon neutrality? (Select all that apply)

A. Carbon capture and storage ✓

B. Fossil fuel extraction

C. Electric vehicles ✓

D. Coal power plants

Which strategies are part of climate change adaptation? (Select all that apply)

A. Building resilient infrastructure ✓

B. Transition to renewable energy

C. Develop sustainable agricultural practices ✓

D. Implement carbon taxes

Which sector is the largest contributor to global greenhouse gas emissions?

A. Agriculture

B. Transportation

C. Industry

D. Energy ✓

Which international agreement aims to limit global warming to below 2 degrees Celsius?

A. Kyoto Protocol

B. Paris Agreement ✓

C. Montreal Protocol

D. Geneva Convention