

# **Climate Change Quiz Questions and Answers 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.

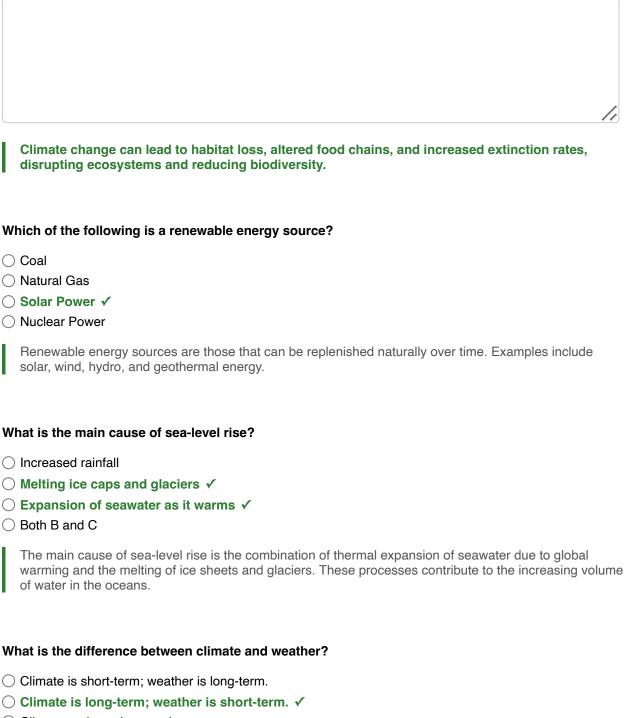
Mitigation involves reducing or preventing greenhouse gas emissions, while adaptation involves adjusting to the effects of climate change to minimize harm.

How does climate change affect biodiversity and ecosystems?

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- $\bigcirc$  Climate and weather are the same.
- Climate is unpredictable; weather is predictable.

Climate refers to the long-term average of weather patterns in a specific area, while weather describes the short-term atmospheric conditions at a particular time and place.



#### What is the primary focus of climate change mitigation?

Reducin emissions	1
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- O Building sea walls
- Educating the public
- O Relocating populations

Climate change mitigation primarily focuses on reducing greenhouse gas emissions and enhancing carbon sinks to limit the extent of global warming. This involves strategies such as transitioning to renewable energy sources, improving energy efficiency, and promoting sustainable land use practices.

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

🗌 Carbon Dioxide 🗸		
☐ Methane ✓		
Oxygen		
☐ Nitrous Oxide ✓		
Greenhouse gases inclu (H2O) These gases tra		

Greenhouse gases include carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), and water vapor (H2O). These gases trap heat in the atmosphere, contributing to the greenhouse effect and climate change.

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

$\Box$	Wind	√
$\Box$	Solar	$\checkmark$
$\square$	Oil	

☐ Hydroelectric ✓

Renewable energy sources include solar, wind, hydroelectric, geothermal, and biomass. These sources are sustainable and can be replenished naturally, unlike fossil fuels.

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

☐ Health risks ✓
☐ Economic growth
☐ Food scarcity ✓

☐ Water scarcity ✓



Climate change can lead to a variety of human impacts, including increased health risks, food and water scarcity, displacement due to extreme weather events, and economic disruptions.

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

events ✓

$\Box$	Rising sea levels ✓
	Increased biodiversity
	More frequent extreme weather
	Stable global temperatures

Climate change has led to observable impacts such as rising global temperatures, increased frequency of extreme weather events, melting ice caps, and rising sea levels.

# 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.
Wr	nich of the following is a natural cause of climate change?
0	Deforestation
$\bigcirc$	Volcanic eruptions ✓
0	Fossil fuel burning
$\bigcirc$	Industrial emissions
	Natural causes of climate change include volcanic eruptions, variations in solar radiation, and natural greenhouse gas emissions. These factors can significantly influence the Earth's climate over time without human intervention.
Wł	nat is the primary greenhouse gas responsible for global warming?
$\bigcirc$	Methane
0	Nitrous Oxide
0	Carbon Dioxide ✓
0	Ozone
	Carbon dioxide (CO2) is the primary greenhouse gas responsible for global warming, primarily due to

human activities such as burning fossil fuels and deforestation.

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

- $\Box$  Carbon capture and storage  $\checkmark$
- Fossil fuel extraction
- □ Electric vehicles ✓
- Coal power plants



Technologies aimed at achieving carbon neutrality include renewable energy sources, carbon capture and storage, electric vehicles, and energy efficiency improvements. These innovations help reduce greenhouse gas emissions and promote sustainable practices.

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

	Building resilient infrastructure ✓
	Transition to renewable energy
	Develop sustainable agricultural practices ✓
	Implement carbon taxes
	Climate change adaptation strategies include a variety of approaches such as improving infrastructure resilience, implementing sustainable agricultural practices, and enhancing water management systems. These strategies aim to reduce vulnerability and increase the ability to cope with the impacts of climate change.
wı	hich sector is the largest contributor to global greenhouse gas emissions?

○ Agriculture

- Transportation
- ◯ Industry
- Energy ✓

The largest contributor to global greenhouse gas emissions is the energy sector, which includes the burning of fossil fuels for electricity and heat. This sector accounts for a significant portion of total emissions, primarily due to coal, oil, and natural gas usage.

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

- Kyoto Protocol
- $\bigcirc$  Paris Agreement  $\checkmark$
- O Montreal Protocol
- Geneva Convention

The international agreement that aims to limit global warming to below 2 degrees Celsius is the Paris Agreement. This landmark accord was adopted in 2015 and involves commitments from countries to reduce greenhouse gas emissions.