

## **Greenhouse Effect Quiz Questions and Answers PDF**

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What is the primary function of the greenhouse effect?
<ul> <li>To block sunlight</li> <li>To trap heat in the Earth's atmosphere ✓</li> <li>To reflect solar radiation back into space</li> <li>To absorb all forms of radiation</li> </ul>
The greenhouse effect is a natural process that warms the Earth's surface by trapping heat from the sun. It is essential for maintaining a climate that can support life, but excessive greenhouse gases can lead to global warming.
Summarize the historical changes in greenhouse gas concentrations since the Industrial Revolution.
Since the Industrial Revolution, greenhouse gas concentrations have significantly increased due to industrialization and increased fossil fuel use.
Which gas is the most abundant greenhouse gas in the Earth's atmosphere?
○ Methane
<ul><li>○ Nitrous oxide</li><li>○ Carbon dioxide</li></ul>
○ Water vapor ✓



Water vapor is the most abundant greenhouse gas in the Earth's atmosphere, playing a crucial role in regulating the planet's temperature. It contributes significantly to the greenhouse effect, although its concentration varies with temperature and weather conditions.

hat is the main consequence of an enhanced greenhouse effect?	
Ozone depletion Global cooling Global warming ✓ Increased solar radiation	
The enhanced greenhouse effect leads to an increase in global temperatures, resulting in climate charand its associated impacts such as extreme weather events, rising sea levels, and ecosystem disruptions.	ange
/hat are the potential long-term impacts of global warming on the environment?	
	/1
Long-term impacts include rising sea levels, loss of biodiversity, and more frequent extreme weather events.	
ow can individuals contribute to reducing greenhouse gas emissions?	
	/1
Individuals can reduce emissions by using energy-efficient appliances, driving less, and supporting renewable energy sources.	



Which of the following is not a greenhouse gas?		
<ul><li>Oxygen ✓</li><li>Methane</li><li>Nitrous oxide</li><li>Carbon dioxide</li></ul>		
Greenhouse gases are substances that trap heat in the atmosphere, contributing to the greenhouse effect. Common greenhouse gases include carbon dioxide, methane, and nitrous oxide, while gases like oxygen and nitrogen are not considered greenhouse gases.		
Which of the following are effects of global warming?		
<ul> <li>Rising sea levels ✓</li> <li>Increased snowfall</li> <li>More frequent extreme weather events ✓</li> <li>Decreased ocean acidity</li> </ul>		
Global warming leads to a variety of environmental changes, including rising sea levels, increased frequency of extreme weather events, and shifts in ecosystems and wildlife populations.		
What is the role of ozone in the greenhouse effect?		
<ul> <li>It blocks UV radiation</li> <li>It traps heat in the atmosphere ✓</li> <li>It cools the Earth's surface</li> <li>It has no role</li> </ul>		
Ozone plays a dual role in the atmosphere; it protects life on Earth by absorbing harmful ultraviolet radiation in the stratosphere, while in the troposphere, it acts as a greenhouse gas that contributes to the greenhouse effect by trapping heat.		
What are some consequences of climate change due to the enhanced greenhouse effect?		
<ul> <li>Loss of biodiversity ✓</li> <li>Decreased global temperatures</li> <li>Ocean acidification ✓</li> <li>AlterED precipitation patterns ✓</li> </ul>		



Which gases are primarily released from agricultural activities?
<ul> <li>Methane ✓</li> <li>Nitrous oxide ✓</li> <li>Carbon monoxide</li> <li>Sulfur dioxide</li> <li>Agricultural activities primarily release gases such as methane (CH4) and nitrous oxide (N2O), which are significant contributors to greenhouse gas emissions.</li> </ul>
Which of the following are considered greenhouse gases?
<ul> <li>Carbon dioxide ✓</li> <li>Methane ✓</li> <li>Nitrogen</li> <li>Nitrous oxide ✓</li> <li>Greenhouse gases include carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), and water vapor, among others. These gases trap heat in the atmosphere, contributing to global warming and climate change.</li> </ul>
Explain how the greenhouse effect is essential for life on Earth.
The greenhouse effect is essential because it maintains Earth's temperature at a level that supports life by trapping heat from the sun.

Climate change due to the enhanced greenhouse effect leads to rising global temperatures, extreme

weather events, and disruptions in ecosystems.

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Describe the process by which greenhouse gases trap heat in the atmosphere.



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	gases absorb infrared radiation emitted by the Earth's surface and re-radiate it back, it in the atmosphere.
Discuss the role	e of human activities in enhancing the greenhouse effect.
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Human activ concentratio	rities such as burning fossil fuels and deforestation increase greenhouse gas ons, enhancing the greenhouse effect.
Which organiza	ation provides comprehensive assessments on climate change?
$\bigcirc$ WHO	
○ IPCC ✓	
<ul><li>○ NASA</li><li>○ UNEP</li></ul>	
	ernmental Panel on Climate Change (IPCC) is the leading organization that provides ve assessments on climate change, synthesizing scientific research and data from around
Which human a	activity is the largest source of carbon dioxide emissions?
O Agriculture	
O Deforestation	
<ul><li>Fossil fuel c</li><li>Industrial pro</li></ul>	



The largest source of carbon dioxide emissions from human activities is the burning of fossil fuels for energy production, transportation, and industrial processes.

Du	ring which period did significant increases in greenhouse gas concentrations begin?
0	Prehistoric Era  Middle Ages  Industrial Revolution  ✓  Information Age
	Significant increases in greenhouse gas concentrations began during the Industrial Revolution, particularly in the late 18th century and into the 19th century as fossil fuel use became widespread.
Wh	at are some natural sources of greenhouse gases?
	Volcanic eruptions ✓
	Forest fires ✓
	Photosynthesis
	Decomposition of organic matter ✓
	Natural sources of greenhouse gases include volcanic eruptions, wildfires, and the respiration of living organisms. These processes release gases like carbon dioxide, methane, and nitrous oxide into the atmosphere.
Wł	nat strategies can help mitigate the greenhouse effect?
	Increasing fossil fuel use
	Enhancing renewable energy use ✓
	Reforestation projects ✓
	ReducING carbon emissions ✓
	Mitigating the greenhouse effect can be achieved through strategies such as reducing fossil fuel consumption, increasing energy efficiency, promoting renewable energy sources, and enhancing carbon sequestration practices.