

Greenhouse Effect Quiz Answer Key PDF

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What is the primary function of the greenhouse effect?

- A. To block sunlight
- B. To trap heat in the Earth's atmosphere ✓**
- C. To reflect solar radiation back into space
- D. To absorb all forms of radiation

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?

- A. Methane
- B. Nitrous oxide
- C. Carbon dioxide
- D. Water vapor ✓**

What is the main consequence of an enhanced greenhouse effect?

- A. Ozone depletion
- B. Global cooling
- C. Global warming ✓**
- D. Increased solar radiation

What are the potential long-term impacts of global warming on the environment?

Long-term impacts include rising sea levels, loss of biodiversity, and more frequent extreme weather events.

How can individuals contribute to reducing greenhouse gas emissions?

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?

- A. Oxygen ✓**
- B. Methane
- C. Nitrous oxide
- D. Carbon dioxide

Which of the following are effects of global warming?

- A. Rising sea levels ✓**
- B. Increased snowfall
- C. More frequent extreme weather events ✓**
- D. Decreased ocean acidity

What is the role of ozone in the greenhouse effect?

- A. It blocks UV radiation
- B. It traps heat in the atmosphere ✓**
- C. It cools the Earth's surface
- D. It has no role

What are some consequences of climate change due to the enhanced greenhouse effect?

- A. Loss of biodiversity ✓**
- B. Decreased global temperatures
- C. Ocean acidification ✓**
- D. Altered precipitation patterns ✓**

Which gases are primarily released from agricultural activities?

- A. Methane ✓**
- B. Nitrous oxide ✓**
- C. Carbon monoxide
- D. Sulfur dioxide

Which of the following are considered greenhouse gases?

- A. Carbon dioxide ✓**
- B. Methane ✓**
- C. Nitrogen
- D. Nitrous oxide ✓**

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.

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

Greenhouse gases absorb infrared radiation emitted by the Earth's surface and re-radiate it back, trapping heat in the atmosphere.

Discuss the role of human activities in enhancing the greenhouse effect.

Human activities such as burning fossil fuels and deforestation increase greenhouse gas concentrations, enhancing the greenhouse effect.

Which organization provides comprehensive assessments on climate change?

- A. WHO
- B. IPCC ✓**
- C. NASA
- D. UNEP

Which human activity is the largest source of carbon dioxide emissions?

- A. Agriculture
- B. Deforestation
- C. Fossil fuel combustion ✓**
- D. Industrial processes

During which period did significant increases in greenhouse gas concentrations begin?

- A. Prehistoric Era
- B. Middle Ages
- C. Industrial Revolution ✓**
- D. Information Age

What are some natural sources of greenhouse gases?

- A. Volcanic eruptions ✓**
- B. Forest fires ✓**
- C. Photosynthesis
- D. Decomposition of organic matter ✓**

What strategies can help mitigate the greenhouse effect?

- A. Increasing fossil fuel use
- B. Enhancing renewable energy use ✓**
- C. Reforestation projects ✓**
- D. Reducing carbon emissions ✓**