

Name _____

The Greenhouse Effect: Earth's Cozy Blanket and Climate Impact

Multiple Choice Questions

1. What gases make up the greenhouse gases responsible for the greenhouse effect?
 - a. Oxygen and nitrogen
 - b. Carbon dioxide and methane
 - c. Helium and hydrogen
 - d. Water vapor and nitrogen

2. What does the greenhouse effect do to incoming solar energy and outgoing infrared radiation?
 - a. Reflects both incoming solar energy and outgoing radiation.
 - b. Allows both incoming solar energy and outgoing radiation to escape freely.
 - c. Traps some of the incoming solar energy and outgoing radiation, keeping the planet warm.
 - d. Accelerates the movement of both incoming solar energy and outgoing radiation.

3. What is the enhanced greenhouse effect, and what causes it?
 - a. It is a natural process that occurs when the Sun is particularly active.
 - b. It is the cooling effect of greenhouse gases in the atmosphere.
 - c. It is an increase in greenhouse gases due to human activities like burning fossil fuels and deforestation.
 - d. It is the process of reducing greenhouse gases in the atmosphere to combat climate change.

4. What is a potential consequence of global warming caused by the enhanced greenhouse effect?
 - a. An increase in polar ice caps
 - b. A decrease in sea levels
 - c. More frequent and severe weather events
 - d. A reduction in greenhouse gas emissions

5. How can the impact of the enhanced greenhouse effect be mitigated?
 - a. By releasing more greenhouse gases into the atmosphere
 - b. By cutting down more trees to remove carbon dioxide
 - c. By reducing greenhouse gas emissions through cleaner energy sources and sustainable practices
 - d. By building more greenhouse structures to trap heat

