

Greenhouse Effect Quiz

Directions: Circle the letter of the best answer for each question.

1. What is the main purpose of the greenhouse effect on Earth?
 - A. To make the sky appear blue
 - B. To keep Earth warm enough for life
 - C. To block all sunlight from reaching Earth
 - D. To cool the Earth's surface
2. Which gas is most responsible for trapping heat in Earth's atmosphere?
 - A. Oxygen
 - B. Nitrogen
 - C. Carbon dioxide
 - D. Helium
3. Which of the following is an example of a greenhouse gas?
 - A. Methane
 - B. Argon
 - C. Neon
 - D. Hydrogen
4. Without the greenhouse effect, Earth would be:
 - A. Much colder and unable to support most life
 - B. Hotter than the surface of Venus
 - C. About the same as it is today
 - D. Covered in thick clouds
5. What human activity releases the most extra greenhouse gases into the atmosphere?
 - A. Planting trees
 - B. Drinking fresh water
 - C. Recycling waste
 - D. Burning fossil fuels
6. Infrared radiation is:
 - A. The light that plants use for photosynthesis
 - B. Heat energy given off by Earth after absorbing sunlight
 - C. The same as ultraviolet rays from the Sun
 - D. A type of sound wave in the atmosphere
7. Which of the following is a possible effect of too many greenhouse gases?
 - A. Stable weather all year
 - B. Less evaporation from oceans
 - C. A cooler Earth with more ice
 - D. Global warming and climate change
8. Which action would help reduce the strengthening of the greenhouse effect?
 - A. Using more coal and oil for power
 - B. Cutting down forests
 - C. Switching to solar and wind energy
 - D. Driving more gasoline-powered cars

