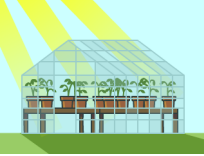


1. Which of the following is a greenhouse gas?

- a. Oxygen
- b. Nitrogen
- c. Methane
- d. Hydrogen

2.  What's one major difference between the earth's greenhouse effect and an actual greenhouse?

- a. Heat escapes from a greenhouse more easily than it does from Earth's atmosphere
- b. The glass in a greenhouse traps heat, while greenhouse gases in the atmosphere absorb and recycle heat
- c. Actual greenhouses are cold in winter, while the greenhouse effect has led to warm winters across the earth
- d. There is no significant difference; both work pretty much the same way

3. What happens to most solar radiation when it reaches the surface of the earth?

- a. It reflects right back into space
- b. It's collected in solar panels
- c. It's soaked up by land, water, and plants
- d. It disperses throughout the earth's atmosphere

4. In what form is radiation emitted from the earth's surface back into the atmosphere?


- a. As light
- b. As greenhouse gases
- c. As gamma rays
- d. As heat

5. What might happen if the greenhouse effect didn't exist?

- a. It would be too cold for humans to survive on the earth
- b. The earth's temperature would be much more comfortable
- c. The sun's rays would never reach the surface of the earth
- d. The earth wouldn't have an atmosphere

6. What can you infer from the fact that global warming has only been a problem for the last 100 years or so?

- a. Prior to 100 years ago, the greenhouse effect on the earth was too minor to be detected.
- b. The earth moved significantly closer to the sun about 100 years ago.
- c. People have only been pumping large quantities of greenhouse gases into the atmosphere for 100 years or so.
- d. The movement of glaciers was a major problem for people 100 years ago.

7.  How can global warming cause sea levels to rise? Choose the best answer.


- a. By causing it to rain more often
- b. By melting glaciers and polar ice caps
- c. By increasing the number of undersea volcanic eruptions
- d. By creating bigger and more powerful hurricanes

8. Why does cutting down trees increase global warming?

- a. Trees soak up carbon dioxide from the air.
- b. Trees provide shade, which counteracts global warming.
- c. Trees absorb the sun's energy without radiating it back into the atmosphere.
- d. Trees drain greenhouse gases like methane from the soil.

9. Which of the following is an example of a fossil fuel?

- a. Firewood
- b. Dead leaves
- c. Seashells
- d. Gasoline

10.  What effect do cows and other livestock have on global warming? Choose the best answer.

- a. They eat trees and grass, which adds to global warming
- b. Their digestive systems produce methane, a powerful greenhouse gas
- c. Humans use lots of fossil fuels to cook the meat they produce, adding to global warming
- d. Livestock have high body temperatures and emit infrared radiation, adding to global warming