

What Do You Know about Climate Change?

Student Pre-Assessment

Name _____

Multiple Choice

Circle the letter of the correct answer(s). If more than one answer is correct, circle all correct answers.

- The process that keeps Earth warm when gases in Earth's atmosphere trap heat energy from the sun is called the _____.
 - glasshouse effect
 - greenhouse effect
 - ozone effect
- Which of the following is NOT a fossil fuel?
 - firewood
 - natural gas
 - petroleum oil
 - coal
- In which of the following ways can climate change affect human communities?
 - increased rate of disease transmission
 - reduced availability of drinking water
 - reduced number of deaths related to cold weather
 - change in farming seasons
 - migration away from coastal areas
- Which of the following are greenhouse gases?
 - carbon dioxide (CO₂)
 - hydrogen (H₂)
 - nitrous oxide (N₂O)
 - methane (CH₄)
 - ethane (C₂H₆)
- During the past century, average temperatures on Earth have _____.
 - increased
 - decreased
 - stayed about the same

- Which of the following actions can reduce your impact on the climate?
 - travel more often to other countries
 - eat more food from different countries
 - live farther away from where you go to school
 - turn off your computer when you are not using it

Short Answer

Answer the following questions in complete sentences.

- When you hear the words "climate change," what is the first thing that comes to your mind?
- A carbon footprint is a measure of your impact on the climate. The more you contribute to climate change, the larger your carbon footprint is. Explain why you think your carbon footprint is large or small.
- What are some possible obstacles to taking action on climate change? (List at least one.)
- What are some possible negative effects of *not* taking action on climate change? (List at least two.)