

# All About Climate Change

## Week 1 Assessment: Quiz

Name \_\_\_\_\_

### Multiple Choice

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

1. What process keeps our planet warm when gases in the atmosphere trap heat energy from the sun?
  - a. climate change effect
  - b. greenhouse effect
  - c. glasshouse effect
2. How does an increase in carbon dioxide (CO<sub>2</sub>) in the atmosphere affect average temperatures on Earth's surface?
  - a. an increase in CO<sub>2</sub> tends to increase temperatures
  - b. an increase in CO<sub>2</sub> tends to decrease temperatures
  - c. an increase in CO<sub>2</sub> does not affect temperatures
3. What is the cheapest way to reduce greenhouse gas emissions from energy use?
  - a. wind energy—build more wind turbines
  - b. nuclear power—build more nuclear plants
  - c. energy conservation—use less energy
  - d. hydropower—build dams to generate electricity from moving water
4. Which of the following energy sources are renewable resources that are alternatives to fossil fuels?
  - a. hydropower
  - b. coal
  - c. natural gas
  - d. wind energy

### Short Answer

*Answer the following questions in complete sentences.*

5. How would you explain “climate change” to someone who has never heard of it?
6. Name and describe three ways that climate change can affect ecosystems or organisms within those ecosystems.
7. What information does a carbon footprint give you?
8. Once the carbon footprint of a person or a business has been calculated, how can you use this information?
9. Name three activities you do or things that you use that contribute to climate change. Explain how they contribute to climate change.
10. Think about how you can make a positive contribution to climate change instead—what are some low-impact alternatives to the three activities or things you just listed?