

1. Where can you find carbon?

- a. Only in Earth's atmosphere
- b. Inside all water molecules
- c. Inside the sun
- d. Inside every living thing on Earth

2. How is the carbon cycle similar to the water cycle?

a. Both involve liquid substances falling to Earth from the atmosphere.

b. Neither process works at low temperatures.

c. Both involve the transfer of substances between animals, plants, and the Earth.

d. Both involve the transfer of substances between the earth and outer space.

3. How do animals add carbon dioxide to the atmosphere?

- a. Through breathing.
- b. Through evaporation.
- c. Through cellular respiration.
- d. Through transpiration.

4. What organisms in the ocean absorb the most carbon dioxide?

- a. Algae and marine plants
- b. Ocean mammals, like whales and dolphins
- c. Fish
- d. Coral

5. What is a carbon sink?

- a. Something that adds carbon to the atmosphere
- b. Something that removes carbon from the atmosphere
- c. Something that adds carbon to the earth's crust
- d. Something that removes carbon from the earth's crust

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6. Which of these historical events led to a major imbalance in the carbon cycle?

- a. The American Civil War
- b. The American Revolution
- c. The Industrial Revolution
- d. The French Revolution

7. Using fewer fossil fuels could help restore equilibrium to the carbon cycle. What does "equilibrium" mean?

- a. Oxygen
- b. Balance
- c. Resources
- d. Sinks

8. How does carbon become locked inside the earth?

- a. Tree roots expel carbon into the soil as they grow
- b. Humans use machines to pump carbon dioxide into large underground tanks
- c. Rocks become richer in carbon as time goes on
- d. The carbon-rich bodies of plants and animals decay into the earth after they die

9. How do carbon emissions lead to global warming?

- a. By trapping the sun's heat in the atmosphere
- b. By causing very hot volcanic eruptions
- c. By catching fire within the atmosphere
- d. By increasing the amount of carbon in the earth's crust

10. Which of these is a factual statement about carbon?

- a. Humans use far too much carbon-based fuel
- b. Carbon is the fourth-most abundant element in the universe
- c. There is no relationship between carbon emissions and global climate change

d. Burning rainforests helps restore equilibrium to the carbon cycle