

Lesson Check: Cycling of Matter

1) Elements such as oxygen, nitrogen, and carbon cycle through a system once.

- True
- False

2) Nitrogen, as it is found in the atmosphere, can be used by plants and animals.

- True
- False

3) Which of the following does NOT move continuously through ecosystems?

- A) water
- B) aluminum
- C) energy
- D) nitrogen

4) Which of the following is NOT part of the water cycle?

- A) nitrogen fixation
- B) evaporation
- C) condensation
- D) precipitation

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5) Which of the following steps in the nitrogen cycle takes place after animals eat plants?

- A) Decaying waste returns nitrogen to the soil.
- B) Bacteria on plant roots fix nitrogen to make it usable.
- C) Plants use nitrogen from the soil.
- D) Lightning changes nitrogen gas into nitrogen compounds.

6) Which of the following is NOT an example of how bacteria aid in the nitrogen cycle?

- A) nitrogen fixation
- B) breaking down the tissue of dead organisms
- C) changing nitrogen compounds into atmospheric nitrogen
- D) infecting tissue

7) Phytoplankton are said to release how much of the oxygen in Earth's atmosphere?

- A) between 5% and 10%
- B) between 15% and 20%
- C) less than 5%
- D) more than 50%

8) Which process can release carbon to the air and into the soil?

- A) photosynthesis
- B) decomposition
- C) combustion
- D) cellular respiration

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9) Which of the following is NOT a way that carbon is stored in the environment as a fossil fuel?

- A) water
- B) coal
- C) oil
- D) natural gas

10) Describe the role of photosynthesis and cellular respiration in the carbon cycle. Then identify and describe the role these processes play in one other cycle of matter.