

# Understanding Ecosystem Cycles

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## Matter Cycling in Ecosystems

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on the lesson about how water, carbon, and nitrogen cycles interconnect in ecosystems.

1. What are the three cycles discussed in the lesson that interconnect in ecosystems?

2. Which of the following best describes the role of living things in these cycles?

- A. They create new elements.
- B. They transfer and transform matter.
- C. They stop the cycles from happening.

3. According to Colossians 1:17, God is before all things, and in Him all things \_\_\_ together.

4. Disrupting one ecosystem cycle can affect the others.

True       False

5. What surprised you about how these cycles connect?

6. What would happen if the nitrogen cycle was disrupted?

- A. Plants would grow faster.
- B. There would be less available nitrogen for plants.
- C. Animals would not be affected at all.

7. The continuous movement of elements through ecosystems is essential for the \_\_\_ of life.

8. The water cycle and the carbon cycle have no connection.

True       False

9. How does understanding these cycles help us appreciate God's design?

10. Which cycle is primarily responsible for providing moisture to the environment?

- A. Carbon cycle
- B. Nitrogen cycle
- C. Water cycle

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### Answer Key

1. water cycle, carbon cycle, and nitrogen cycle 2. They transfer and transform matter. 3. hold 4. True 5. I was surprised to learn that if one cycle is disrupted, it could impact the others significantly. 6. There would be less available nitrogen for plants. 7. sustainability 8. False 9. Understanding these cycles shows us how intricately God created the world to work together harmoniously. 10. Water cycle