

Section 3-3 Cycles of Matter (pages 74-80)



Key Concepts

- How does matter move among the living and nonliving parts of an ecosystem?
- How are nutrients important in living systems?

Introduction (page 74)

1. What are the four elements that make up over 95 percent of the body in most organisms? _____

Recycling in the Biosphere (page 74)

2. How is the movement of matter through the biosphere different from the flow of energy? _____
3. Matter moves through an ecosystem in _____
4. What do biogeochemical cycles connect? _____

The Water Cycle (page 75)

5. Water can enter the atmosphere by evaporating from the leaves of plants in the process of _____
6. Circle the letter of each process involved in the water cycle.
 - a. precipitation
 - b. evaporation
 - c. runoff
 - d. fertilization

Nutrient Cycles (pages 76-79)

7. What are nutrients? _____
8. What are the three nutrient cycles that play especially prominent roles in the biosphere?
 - a. _____
 - b. _____
 - c. _____
9. What are three large reservoirs where carbon is found in the biosphere?
 - a. As carbon dioxide gas in the _____
 - b. As dissolved carbon dioxide in the _____
 - c. As coal, petroleum, and calcium carbonate rock found _____
10. In what process do plants use carbon dioxide? _____

Section 3 3 Cycles Of Matter Pages

Michael H. Engel, Stephen A. Macko



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