





## 3.4 Cycles of Matter

### Lesson Objectives

-  Describe how matter cycles among the living and nonliving parts of an ecosystem.
-  Describe how water cycles through the biosphere.
-  Explain why nutrients are important in living systems.
-  Describe how the availability of nutrients affects the productivity of ecosystems.

### Lesson Summary

**Recycling in the Biosphere** \_\_\_\_\_, unlike energy, is \_\_\_\_\_ within and between ecosystems. Elements pass from one organism to another and from one part of the biosphere to another through \_\_\_\_\_, which are closed loops powered by the flow of energy.

**The Water Cycle** Water moves between the \_\_\_\_\_, the \_\_\_\_\_, and \_\_\_\_\_.

- ▶ Evaporation is the process in which water changes from a liquid to a gas.
- ▶ Transpiration is the process in which water evaporates from the leaves of plants. Other steps in the water cycle include \_\_\_\_\_.

**Nutrient Cycles** The chemical substances that an organism needs to survive are called \_\_\_\_\_. Like water, nutrients pass through organisms and the environment.

- ▶ **Carbon Cycle:** Carbon is a key ingredient of all \_\_\_\_\_. Processes involved in the carbon cycle include photosynthesis and human activities such as burning.
- ▶ **Nitrogen Cycle:** Nitrogen is needed by all organisms to \_\_\_\_\_. Processes involved in the nitrogen cycle include \_\_\_\_\_ and \_\_\_\_\_.
  - In **nitrogen fixation**, certain \_\_\_\_\_ convert \_\_\_\_\_ into \_\_\_\_\_.
  - In **denitrification**, other soil \_\_\_\_\_ nitrogen compounds called \_\_\_\_\_ back into \_\_\_\_\_.
- ▶ **Phosphorus Cycle:** Phosphorus is needed for molecules such as \_\_\_\_\_ and \_\_\_\_\_. Most of the phosphorus in the biosphere is \_\_\_\_\_ and \_\_\_\_\_. Stored phosphorus is gradually released into water and soil, where it is used by organisms.

**Nutrient Limitation** A nutrient that, in short supply, can limit the productivity of an ecosystem is called a \_\_\_\_\_.

# Lab Matter Cycle Answers

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**Exercises in Historical Geology** Arthur Carleton Trowbridge, 1928 **The Life Cycle of Everyday Stuff** Mike Reeske, Shirley Watt Ireton, National Science Teachers Association, 2001 In the context of life cycles these units use central science concepts to explore the energy raw materials and waste issues that are the history of any manufactured product As students consider the trade offs made at each step they will learn to recognize the decisions made to balance economic developmental and environmental needs **Nominations Before the Senate Armed Services Committee, First**

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The Westminster Review ,1911

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