

## 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 \_\_\_\_\_.

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