

## 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** Matter, unlike energy, is recycled within and between ecosystems. Elements pass from one organism to another and from one part of the biosphere to another through **biogeochemical cycles**, which are closed loops powered by the flow of energy.

**The Water Cycle** Water moves between the ocean, the atmosphere, and land.

- ▶ 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.

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

- ▶ **Carbon Cycle:** Carbon is a key ingredient of all organic compounds. Processes involved in the carbon cycle include photosynthesis and human activities such as burning.
- ▶ **Nitrogen Cycle:** Nitrogen is needed by all organisms to build proteins. Processes involved in the nitrogen cycle include nitrogen fixation and denitrification.
  - In **nitrogen fixation**, certain bacteria convert nitrogen gas into ammonia.
  - In **denitrification**, other soil bacteria convert nitrogen compounds called nitrates back into nitrogen gas.

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

# Section 3 3 Cycles Of Matter Biology Answers

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