





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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Xiaolong Qi



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Solar Cells Leonid A. Kosyachenko,2011-11-02 The fourth book of the four volume edition of Solar cells consists chapters that are general in nature and not related specifically to the so called photovoltaic generations novel scientific ideas and technical solutions which has not properly approved General issues of the efficiency of solar cell and through hydrogen production in photoelectrochemical solar cell are discussed Considerable

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