

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 With Answer

United States



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Enjoying the Song of Expression: An Emotional Symphony within **Section 3 3 Cycles Of Matter With Answer**

In a global eaten by screens and the ceaseless chatter of immediate communication, the melodic splendor and psychological symphony created by the published term usually fade into the back ground, eclipsed by the relentless noise and disturbances that permeate our lives. But, located within the pages of **Section 3 3 Cycles Of Matter With Answer** a charming fictional treasure full of fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this captivating masterpiece conducts viewers on an emotional trip, well unraveling the concealed songs and profound affect resonating within each cautiously crafted phrase. Within the depths of this emotional analysis, we will investigate the book is main harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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