

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**.

3 3 Cycles Of Matter Workbook

Kevin T. Patton, Gary A. Thibodeau



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The Mathematical Coloring Book Alexander Soifer, 2008-10-13 This is a unique type of book at least I have never encountered a book of this kind The best description of it I can give is that it is a mystery novel developing on three levels and imbued with both educational and philosophical moral issues If this summary description does not help understanding the particular character and allure of the book possibly a more detailed explanation will be found useful One of the primary goals of the author is to interest readers in particular young mathematicians or possibly pre mathematicians in the fascinating world of elegant and easily understandable problems for which no particular mathematical knowledge is necessary but which are very far from being easily solved In fact the prototype of such problems is the following If each point of the plane is to be given a color how many colors do we need if every two points at unit distance are to receive distinct colors More than half a century ago it was established that the least number of colors needed for such a coloring is either 4 or 5 or 6 or 7 Well which is it Despite efforts by a legion of very bright people many of whom developed whole branches of mathematics and solved problems that seemed much harder not a single advance towards the answer has been made This mystery and scores of other similarly simple questions form one level of mysteries explored In doing this the author presents a whole lot of attractive results in an engaging way and with increasing level of depth Pm Science P3/4 Home Practice ,

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