



13.5

Cycling of Matter

AL.8

VOCABULARY

hydrologic cycle
biogeochemical cycle
nitrogen fixation

AL.8 Develop and use models to describe the cycling of matter (e.g., carbon, nitrogen, water) and flow of energy (e.g., food chains, food webs, biomass pyramids, ten percent law) between abiotic and biotic factors in ecosystems.

KEY CONCEPT Matter cycles in and out of an ecosystem.

MAIN IDEAS

- Water cycles through the environment.
- Elements essential for life also cycle through ecosystems.
- Natural and human activities can disrupt biogeochemical cycles and ecosystems.

Connect to Your World

Since life in most ecosystems requires a constant inflow of energy from the Sun, Earth is an open system in terms of energy. However, in terms of matter, such as oxygen and carbon, Earth is a closed system. Today's Earth has roughly the same amount of carbon as it had billions of years ago, meaning that the same carbon atoms that make up your body may once have been part of a tree, or gases spewed by a volcano, or even part of a dinosaur.

MAIN IDEA

Water cycles through the environment.

Matter changes form, but it does not disappear. It can be used over and over again in a continuous cycle. If you crush a rock, for example, it does not vanish. Instead, it turns into sand and other bits of minerals. Although matter may change form over time, the total amount of matter remains the same.

As you learned earlier, a major part of life on Earth is water, which has a cycle of its own. The **hydrologic cycle** (HY-druh-LAHJ-ihk), also known as the water cycle, is the circular pathway of water on Earth from the atmosphere, to the surface, below ground, and back. Part of that pathway involves humans and other organisms, which all have bodies made mostly of water.

As shown in **FIGURE 5.1**, precipitation, such as rain or snow, falls to Earth. Some of this precipitation seeps into the ground, some drops into ponds, streams, lakes, or other waterways, and some forms puddles or other temporary pools. Depending on the type of soil and rocks surrounding it and also on its location, groundwater may empty directly into oceans. Sometimes water flows first into lakes, swamps, or wetlands, but these—along with rivers, streams, and other freshwater sources—also feed into oceans.

In addition, some droplets of water quickly reenter the atmosphere through evaporation. Since oceans cover over 70 percent of Earth's surface, about 85 percent of Earth's evaporation occurs between the oceans and the atmosphere. On land, water vapor is released by plants during transpiration, which is evaporation that occurs between plant leaves and the atmosphere. The cycle is completed as water vapor in the atmosphere condenses and forms clouds, returning water to the surface once again in the form of precipitation.

Analyze If the total amount of water on Earth does not change, why are there concerns about global freshwater shortages?

CONNECT TO

PROPERTIES OF WATER

The presence of water is necessary for life on Earth. All organisms depend on the simple structure of the water molecule. As you learned in the chapter **Chemistry of Life**, water has several unique properties. Water's high specific heat helps keep cells at the right temperature to carry out life processes.

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J Spring



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responses to environmental factors such as global warming atmospheric sedimentation eutrophication ocean acidification and hypoxia have attracted widespread attention Microorganisms are the main drivers of the biogenic factor cycle Climate change and the deterioration of the marine environment have profoundly affected the structure and function of microbial communities leading to changes in the biogenic factor cycle mediated by microorganisms and changing the position and role of the oceans in the global biogenic factor cycle and climate change

Sustaining the Earth George Tyler Miller, 2004 In this 6th edition of SUSTAINING THE EARTH Miller has added an on line Web based resource called the Resource Integration Guide Updated quarterly with CNN Today video clips animations and articles from InfoTrac College Edition instructors will be able to seamlessly incorporate the most current news articles and up to the minute research findings to support classroom instruction and text presentations The content in the 6th edition of SUSTAINING THE EARTH by Tyler Miller is everything you have come to expect and more Two new chapters on basic ecology Chapters 3 and 4 have been added to this edition to enhance this science based book This text differs from Miller s comprehensive text LIVING IN THE ENVIRONMENT 13th Edition because there is much less detail and more integration of topics with a different chapter order For example the following topics have been integrated into single chapters human population dynamics and urban problems are in Chapter 5 nonrenewable and renewable energy resources are in Chapter 6 terrestrial and aquatic biodiversity are in Chapter 7 water resources and water pollution are in Chapter 12 solid and hazardous waste are in Chapter 13 and environmental economics politics and worldviews are in Chapter 14 For the first time ever in a Miller textbook students will receive a CD ROM entitled Interactive Concepts in Environmental Science This groundbreaking addition integrates nearly 100 engaging animations and interactions with chapter summaries flashcards and Web based quizzes Organized by chapter students will find links to relevant resources narrated animations interactive figures and prompts to review material and test themselves Miller has remained true to his hallmark features such as high quality end of chapter questions an orientation toward prevention rather than clean up an integration of Web resources and video and a balanced presentation of controversial environmental issues

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