

## Section 3-3

### 1 FOCUS

#### Objectives

- 3.3.1 Describe** how matter cycles among the living and nonliving parts of an ecosystem.
- 3.3.2 Explain** why nutrients are important in living systems.
- 3.3.3 Describe** how the availability of nutrients affects the productivity of ecosystems.

#### Guide for Reading

##### Vocabulary Preview

Figure 3-11, page 75, introduces seven terms. Two of the terms, *evaporation* and *transpiration*, are explicitly defined in the text. The meanings of the remaining five terms—*condensation*, *precipitation*, *runoff*, *seepage*, and *uptake*—can be inferred from their context. As students read about the water cycle on page 75, have them look for sentences that relate to the terms and copy them on a sheet of paper. Finally, using the sentences they copied as a basis, students can extrapolate a “formal” definition for each term. Have students share their definitions in a class discussion.

##### Reading Strategy

Have students make their own simplified cycle diagrams of the water cycle, carbon cycle, nitrogen cycle, and phosphorus cycle.

### 2 INSTRUCT

## Recycling in the Biosphere

#### Build Science Skills

**Inferring** After students have read *Recycling in the Biosphere*, point out the sentence that begins *You are soon swallowed by a dung beetle . . .* Ask: *How can a molecule that’s swallowed by a dung beetle “combine into”—or become part of—the body tissue of a tree shrew and then an owl?* (*The tree shrew takes in the molecule when it eats the dung beetle, and then an owl takes in the molecule when it eats the tree shrew.*)

## 3-3 Cycles of Matter

#### Guide for Reading



##### Key Concepts

- How does matter move among the living and nonliving parts of an ecosystem?
- How are nutrients important in living systems?

##### Vocabulary

biogeochemical cycle  
evaporation  
transpiration  
nutrient  
nitrogen fixation  
denitrification  
primary productivity  
limiting nutrient  
algal bloom

##### Reading Strategy:

**Using Visuals** Before you read, preview the cycles shown in **Figures 3-11, 3-13, 3-14, and 3-15**. Notice how each diagram is similar to or different from the others. As you read, take notes on how each chemical moves through the biosphere.

**Figure 3-10** Matter moves through an ecosystem in biogeochemical cycles. In this Alaskan wetland, matter is recycled through the air, the shrubs, the pond, and the caribou—as it is used, transformed, moved, and reused.

Energy is crucial to an ecosystem. But all organisms need more than energy to survive. They also need water, minerals, and other life-sustaining compounds. In most organisms, more than 90 percent of the body is made up of just four elements: oxygen, carbon, hydrogen, and nitrogen. Although these four elements are common on Earth, organisms cannot use them unless the elements are in a chemical form that cells can take up.

## Recycling in the Biosphere

Energy and matter move through the biosphere very differently. **Unlike the one-way flow of energy, matter is recycled within and between ecosystems.** Elements, chemical compounds, and other forms of matter are passed from one organism to another and from one part of the biosphere to another through **biogeochemical cycles**. As the long word suggests, biogeochemical cycles connect biological, geological, and chemical aspects of the biosphere.

Matter can cycle through the biosphere because biological systems do not use up matter; they transform it. The matter is assembled into living tissue or passed out of the body as waste products. Imagine, for a moment, that you are a carbon atom in a molecule of carbon dioxide floating in the air of a wetland like the one in **Figure 3-10**. The leaf of a blueberry bush absorbs you during photosynthesis. You become part of a carbohydrate molecule and are used to make fruit. The fruit is eaten by a caribou, and within a few hours, you are passed out of the animal’s body. You are soon swallowed by a dung beetle, then combined into the body tissue of a hungry shrew, which is then eaten by an owl. Finally, you are released into the atmosphere once again when the owl exhalates. Then, the cycle starts again.

Simply put, biogeochemical cycles pass the same molecules around again and again within the biosphere. Just think—with every breath you take, you inhale hundreds of thousands of oxygen atoms that might have been inhaled by dinosaurs millions of years ago!



#### SECTION RESOURCES

##### Print:

- Laboratory Manual A**, Chapter 3 Lab
- Laboratory Manual B**, Chapter 3 Lab
- Teaching Resources**, Lesson Plan 3-3, Adapted Section Summary 3-3, Adapted Worksheets 3-3, Section Summary 3-3, Worksheets 3-3, Section Review 3-3, Enrichment
- Reading and Study Workbook A**, Section 3-3

- Adapted Reading and Study Workbook B**, Section 3-3
- Biotechnology Manual**, Issue 4
- Lab Worksheets**, Chapter 3 Exploration

##### Technology:

- BioDetectives DVD**, *Plankton: A Killer in the Water*
- iText**, Section 3-3
- Transparencies Plus**, Section 3-3



# Biology Section 3 3 Cycles Of Matter Answers

**Wenbin Ji**



### **Biology Section 3 3 Cycles Of Matter Answers:**

**Prentice Hall Biology, 2002** Irvine Welsh, Prentice-Hall Staff, 2001-04 One program that ensures success for all students  
*Ocean Biogeochemical Dynamics* Jorge L. Sarmiento, Nicolas Gruber, 2013-07-17 *Ocean Biogeochemical Dynamics* provides a broad theoretical framework upon which graduate students and upper level undergraduates can formulate an understanding of the processes that control the mean concentration and distribution of biologically utilized elements and compounds in the ocean Though it is written as a textbook it will also be of interest to more advanced scientists as a wide ranging synthesis of our present understanding of ocean biogeochemical processes The first two chapters of the book provide an introductory overview of biogeochemical and physical oceanography The next four chapters concentrate on processes at the air sea interface the production of organic matter in the upper ocean the remineralization of organic matter in the water column and the processing of organic matter in the sediments The focus of these chapters is on analyzing the cycles of organic carbon oxygen and nutrients The next three chapters round out the authors coverage of ocean biogeochemical cycles with discussions of silica dissolved inorganic carbon and alkalinity and  $\text{CaCO}_3$  The final chapter discusses applications of ocean biogeochemistry to our understanding of the role of the ocean carbon cycle in interannual to decadal variability paleoclimatology and the anthropogenic carbon budget The problem sets included at the end of each chapter encourage students to ask critical questions in this exciting new field While much of the approach is mathematical the math is at a level that should be accessible to students with a year or two of college level mathematics and or physics

**SAT II Biology For Dummies** Scott A. Hatch, Lisa Zimmer Hatch, 2005-04-01 Get tips on preparing for test traps Psych yourself up and score your best Yipes You ve got 60 minutes to answer 80 questions on plants and animals ecology genetics cells and molecules and evolution How do you psych yourself up and score your best This friendly guide delivers just what you need a thorough review of biology including special sections on M and E exam topics plus two complete practice tests and lots of insider tips to help boost your score Discover how to Recognize wrong answers Zero in on the best answer Manage your time Minimize test taking anxiety Familiarize yourself with the format  
**Biochemistry** Donald Voet, Judith G. Voet, 2010-12-01 *The Gold Standard in Biochemistry* text books *Biochemistry 4e* is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge  
**Sustainability Principles and Practice** Margaret Robertson, 2017-03-16 This new and expanded edition builds upon the first edition s accessible and comprehensive overview of the interdisciplinary field of sustainability The focus is on furnishing solutions and equipping the student with both conceptual understanding and technical skills for the workplace Each chapter explores one aspect of the field first introducing concepts and presenting issues then supplying tools for working toward solutions Techniques for management and measurement as well as case studies from around the world

are provided The second edition includes a complete update of the text with increased coverage of major topics including the Anthropocene complexity resilience environmental ethics governance the IPCC s latest findings on climate change Sustainable Development Goals and new thinking on native species and novel ecosystems Chapters include further reading and discussion questions The book is supported by a companion website with links detailed reading lists glossary and additional case studies together with projects research problems and group activities all of which focus on real world problem solving of sustainability issues The textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught

**The Life Cycle of Everyday Stuff** Mike Reeske, Shirley Watt Ireton, National Science Teachers Association, 2001 In the context of life cycles these units use central science concepts to explore the energy raw materials and waste issues that are the history of any manufactured product As students consider the trade offs made at each step they will learn to recognize the decisions made to balance economic developmental and environmental needs

**British Medical Journal** ,1901 **Monthly Bulletin** St. Louis Public Library, 1916 **Prentice Hall Scientific Learning System** Prentice-Hall Staff, 1994 **Biological Abstracts** ,1928 *The Publishers Weekly* ,1923 *Scientific American* ,1899 **Environmental Science** William P.

Cunningham, Barbara Woodworth Saigo, 1999 Introducing students to environmental science without any prerequisites this text has a strong global emphasis and recognizes that the world is a unified biosphere that doesn t adhere to artificial political boundaries Topics covered include the Greenhouse Effect the Clean Air Act and El Nino

*Ocean Chemistry and Deep-sea Sediments* Open University, 2001 After a brief introduction to the distribution of deep sea sediments we show how the activities of marine organisms cycle nutrients and other dissolved constituents within the oceans and influence the rates at which both solid and dissolved material is removed to sediments Chapter 3 reviews the carbonate system and ends with a brief excursion into palaeoceanography We conclude by describing the biological and chemical processes that continue long after sediments have been deposited on the deep sea floor

*Technical Note* ,1923 Experiment Station Record United States. Office of Experiment Stations, 1923 **Cycles** ,1994 Chemical News and Journal of Industrial Science ,1917

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