

Chapter 54

Ecosystems

Teaching Objectives

Ecosystems, Energy, and Matter

1. Describe the fundamental relationship between autotrophs and heterotrophs in an ecosystem.
2. Explain how the first and second laws of thermodynamics apply to ecosystems.
3. Explain how decomposition connects all trophic levels in an ecosystem.

Primary Production in Ecosystems

4. Explain why the amount of energy used in photosynthesis is so much less than the amount of solar energy that reaches Earth.
5. Define and compare gross primary production and net primary production.
6. Define and compare net primary production and standing crop.
7. Compare primary productivity in specific marine, freshwater, and terrestrial ecosystems.

Secondary Production in Ecosystems

8. Explain why energy is said to flow rather than cycle within ecosystems.
9. Explain what factors may limit production in aquatic ecosystems.
10. Describe an experiment that provided evidence that iron availability limits oceanic primary production in some regions. Explain how iron availability is related to nitrogen availability in these regions.
11. Explain why areas of upwelling in the ocean have exceptionally high levels of primary production.
12. Distinguish between each of the following pairs of terms:
 - a. primary and secondary production
 - b. production efficiency and trophic efficiency

Chapter 54 Ecosystems Answer Guide

Russell C. Hollingsworth

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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R.

Taylor, 1999 *Study Guide to Accompany Biology* by Karen Arms and Pamela S. Camp Russell C. Hollingsworth, 1979

Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information

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Harcourt Science: Teacher's ed., life science units A and B, 2005 **Test Bank - Sociology In A Changing World** William Kornblum, 1996-08 **New York State Regents Exam** Kaplan, Kaplan Educational Center Staff, 2000-02

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2nd Congress on Traditional Sciences and Technologies of India, 27th-31st December 1995, Anna University, Madras, 1995 **Environment Science** Clark E. Adams, 2004-06. This study guide helps students identify the important concepts from the text and then provides them with review exercises, study questions, self check exercises and vocabulary review.

Scientific and Technical Aerospace Reports, 1976. Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database. **Ecology: Teacher's ed**, 2005 **Environmental Science** Daniel D. Chiras, 1988

Practical Plant Ecology Arthur George Tansley, 1926 *Pacific Conservation Biology*, 2009 *Essentials of Environmental Science* Bernard J. Nebel, G. S. Dhaliwal, Pearson Custom Publishing, S. S. Kukal, 1999-11 *Sierra Nevada Ecosystem Project Final Report to Congress* Sierra Nevada Ecosystem Project, 1996

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