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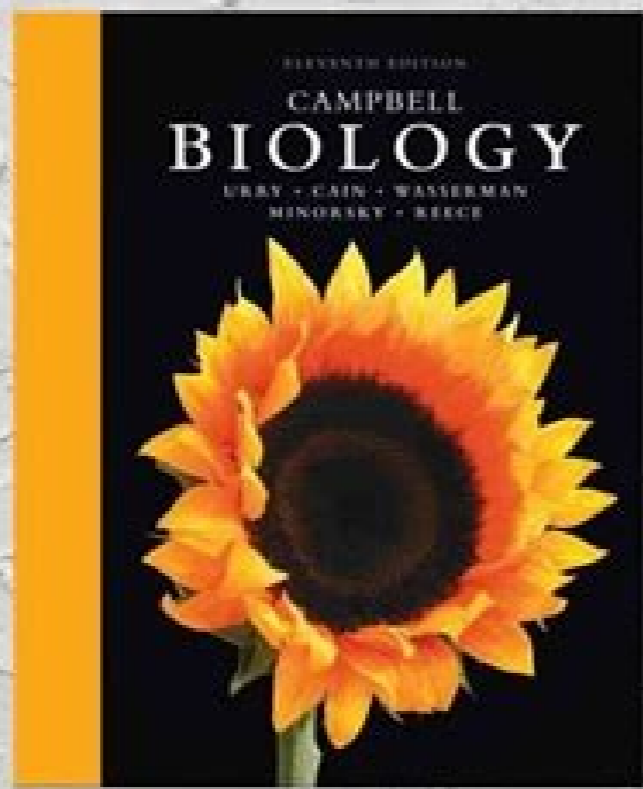
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**Unit 3 TEST REVIEW**  
**ENERGY, ENZYMES, CELLULAR RESPIRATION & PHOTOSYNTHESIS**  
**AP Biology Textbook Chapters 8, 9 & 10**

**ENERGETICS, METABOLISM & ENZYMES – CHAPTER 8**

Chemical reactions in Metabolic Processes

1] What is the primary source of ENERGY INPUTS for all living things?  
The Sun.

a) What is a producer, or an autotroph? Give several examples from Kingdom Plantae or Monera? A producer is an organism that makes its own food from either light (photoautotrophs), or inorganic reduced compounds like methane and ammonia (chemolithoautotrophs). Photoautotrophs – tulips, oak trees, Chemolithoautotrophs (H<sub>2</sub>S, S<sub>0</sub>, Fe<sup>2+</sup>, NO<sub>2</sub>-or NH<sub>3</sub>) – Nitrobacter, Nitrosomas, Acidithiobacillus ferrooxidans.

b) What is a consumer, or a heterotroph? Give several examples from Kingdom Animalia, Protista or Fungi? A consumer is an organism that derives its energy from ingesting (Kingdom Animalia) or absorbing (Kingdom Fungi) other organisms. An example of a heterotroph is an amoeba, a human, and a morel mushroom.

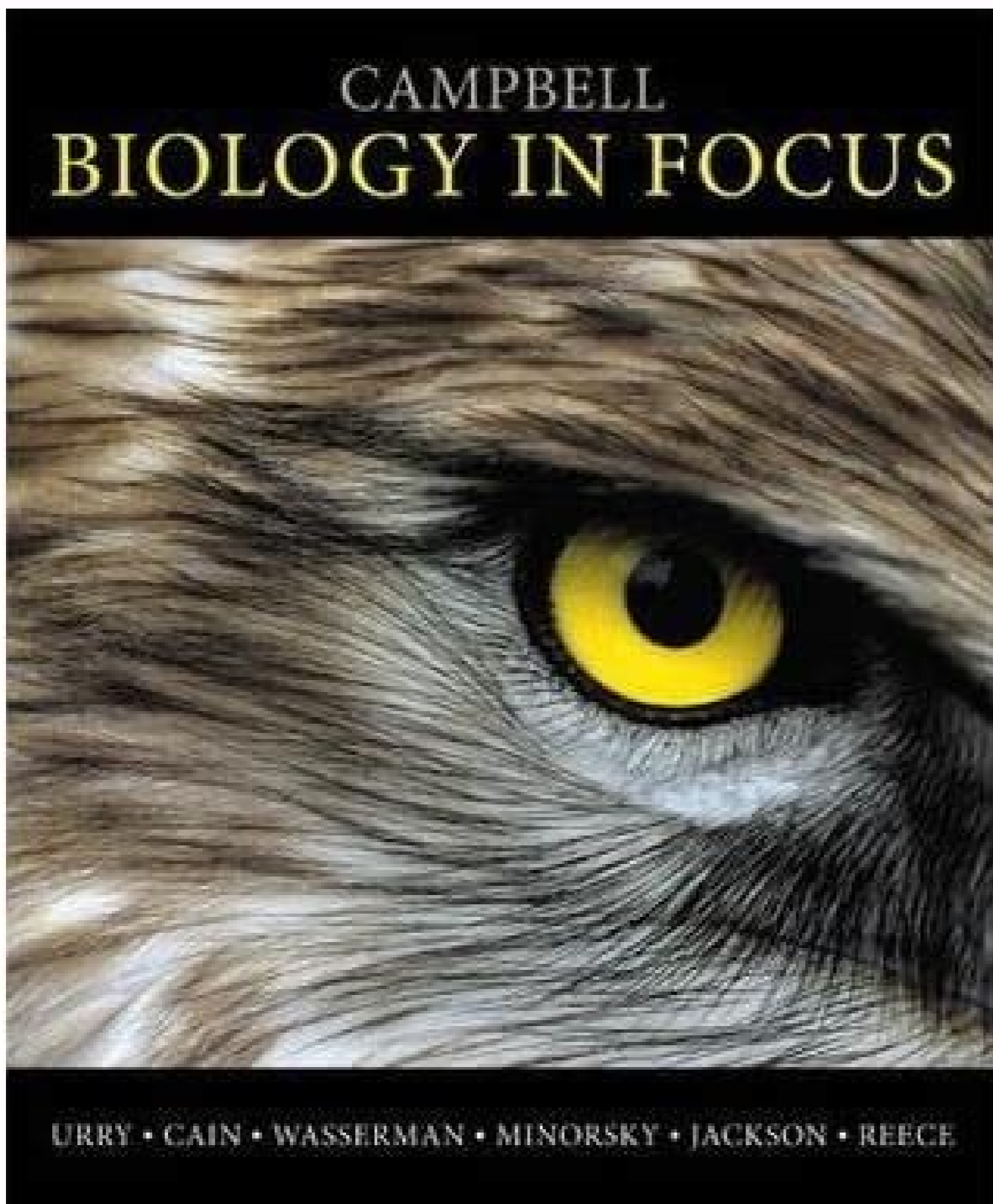
c) How does this energy travel from producers to consumers? Producers form the base or foundation of all trophic pyramids. Producers capture energy from the Sun, coupled with carbon dioxide, and transform it into biologically active compounds like glucose. First level consumers, herbivores, then ingest those producers. The herbivores are eaten by secondary consumers. Secondary consumers are eaten by tertiary consumers. Only 10% of the energy that is available actually makes it to the next level consumer due to losses due to metabolism and heat dissipation.

2] Define METABOLISM.

The sum of all chemical reactions that occur in the body, the set of life-sustaining chemical transformations within the cells of living organisms. These enzyme-catalyzed reactions allow organisms to grow and reproduce, maintain their structures, and respond to their environments. The word metabolism can also refer to all chemical reactions that occur in living organisms, including digestion and the transport of substances into and between different cells.

a) The reactions of biological life form bonds between molecules through the process of dehydration synthesis.

This is called a(n) anabolic reaction, and it requires energy, making it endergonic.



Name: \_\_\_\_\_ AP Biology

**Chapter 1 Active Reading Guide**  
**Introduction: Themes in the Study of Life**

Begin your study of biology this year by reading Chapter 1. It will serve as a reminder about biological concepts that you may have learned in an earlier course and give you an overview of what you will study this year.

**Section 1**  
1. What are **emergent properties**? Give two examples.

2. Life is organized on many scales. Figure 1.3 zooms you in from viewing Earth from space all the way to the level of molecules. As you study this figure, write in a brief definition of each level.

Level	Definition
biosphere	
ecosystem	
community	
population	
organisms	
organ/organ systems	
tissues	
cells	
organelles	
molecules	

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 Barbara Puegner Director of Federal Accounts Savvas Fax: (952) 906 - 0973 barbara.puegner@savvas.com P.O.C. for orders: docustomer@savvas.com reset Lisa has taught a variety of courses, from introductory biology to developmental biology and senior seminar. She holds an A.B. in biology from Harvard University, an M.S. in microbiology from Rutgers University, and a Ph.D. in bacteriology from the University of California, Berkeley. Cain, Steven A. His 30 years of teaching in diverse environments included introductory biology courses at Cornell University, Pomona College, and San Bernardino Valley College, where he received the college's first Outstanding Professor Award in 1986. Michael is also the lead author of an ecology textbook. Michael earned a joint degree in biology and math at Bowdoin College, an M.Sc. from Brown University, and a Ph.D. in ecology and evolutionary biology from Cornell University. He earned his A.B. in biology from Harvard University and his Ph.D. in biological sciences from MIT. His research interests concern how plants sense environmental change. I was so impressed with this textbook I bought one for myself. Through his research on regulatory pathway mechanisms in the fruit fly Drosophila, Steve has contributed to the fields of developmental biology, reproduction, and immunity. Minorsky, Jane B. Besides her work on the Campbell textbooks for biology majors, she has been an author of Campbell Biology: Concepts & Connections, Campbell Essential Biology, and The World of the Cell. Customer Reviews Most helpful customer reviews 40 of 40 people found the following review helpful. Reading Book Campbell Biology (11th Edition) By Lisa A. Reece .Pdf Campbell Biology (11th Edition) By Lisa A. Reece The head of the author team for recent editions of CAMPBELL BIOLOGY. Jane Reece was Neil Campbell's longtime collaborator. Neil was the lead author of Campbell Biology: Concepts & Connections, Campbell Essential Biology, and CAMPBELL BIOLOGY. Minorsky Peter Minorsky (Unit 6) is Professor of Biology at Mercy College in New York, where he teaches introductory biology, evolution, ecology, and botany. Nothing wrong with it. He has also served as the research mentor for more than a dozen doctoral students and more than 50 aspiring scientists at the undergraduate and high school levels. Reece PDF Free Click here Ebook Campbell Biology (11th Edition) By Lisa A. Michael L. Jane's research as a doctoral student and postdoctoral fellow focused on genetic recombination in bacteria. He was a visiting scholar in the Department of Botany and Plant Sciences at the University of California, Riverside. Reece, Read Campbell Biology (11th Edition) By Lisa A. Reece For DOWNLOAD About the Author Lisa A. Urry Lisa Urry (Chapter 1 and Units 1, 2, and 3) is Professor of Biology and Chair of the Biology Department at Mills College in Oakland, California, and a Visiting Scholar at the University of California, Berkeley. As a faculty member at the University of Texas Southwestern Medical Center and UCSF, he has taught genetics, development, and physiology to undergraduate, graduate, and medical students. Campbell Neil Campbell (1946-2004) combined the investigative nature of a research scientist with the soul of an experienced and caring teacher. I am a medical doctor, I have a degree in biology, my twin girls are taking biology in college and asked me to tutor them. Reece Read Ebook [PDF] Campbell Biology (11th Edition) By Lisa A. Cain Michael Cain (Units 4, 5, and 8) is an ecologist and evolutionary biologist who is now writing fulltime. This is the best biology textbook I had ever read by Mark This is the best biology textbook I had ever read. The book came about three weeks after I placed the order. Earlier, Jane taught biology at Middlesex County College and Queensborough Community College. It is very well written, the concepts were easy to understand and the extra in-depth explanations and quizzes provided excellent reinforcement of the information being taught. After a postdoctoral fellowship at the University of Wisconsin at Madison, Peter taught at Kenyon College, Union College, Western Connecticut State University, and Vassar College. He received his A.B. in biology from Vassar College and his Ph.D. in plant physiology from Cornell University. Very glad I found a cheaper alternative By Negin Very glad I found a cheaper alternative. Read Campbell Biology (11th Edition) By Lisa A.

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