

Study Guide

CHAPTER 8

Section 1: How Organisms Obtain Energy

In your textbook, read about how organisms obtain energy.

Match the definition in Column A with the term in Column B.

Column A

- C 1. the idea that energy cannot be created or destroyed
- E 2. all the chemical reactions in a cell
- F 3. anabolic pathway that converts energy from the Sun to chemical energy for use by cells
- A 4. ability to do work
- H 5. series of chemical reactions in which the product of one reaction is the substrate for the next reaction
- I 6. biological molecule that provides chemical energy
- B 7. study of the flow and transformation of energy
- J 8. source of nearly all energy for life
- G 9. catabolic pathway that breaks down organic molecules
- D 10. spontaneous increase in disorder, or entropy

Column B

- A. energy
- B. thermodynamics
- C. first law of thermodynamics
- D. second law of thermodynamics
- E. metabolism
- F. photosynthesis
- G. cellular respiration
- H. metabolic pathway
- I. adenosine triphosphate (ATP)
- J. sunlight

Use each of the terms below only once to complete the passage.

aerobic
glucose

anaerobic
glycolysis

ATP
mitochondria

cellular respiration
NADH

cytoplasm
oxygen

energy

Organisms obtain energy in a process called (1) cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) Glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.

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Robert R. Redfield



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Table of Contents Photosynthesis Study Guide Answers 2011 Pearson Education

1. Understanding the eBook Photosynthesis Study Guide Answers 2011 Pearson Education
 - The Rise of Digital Reading Photosynthesis Study Guide Answers 2011 Pearson Education
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis Study Guide Answers 2011 Pearson Education
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Photosynthesis Study Guide Answers 2011 Pearson Education
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis Study Guide Answers 2011 Pearson Education
 - Personalized Recommendations
 - Photosynthesis Study Guide Answers 2011 Pearson Education User Reviews and Ratings
 - Photosynthesis Study Guide Answers 2011 Pearson Education and Bestseller Lists

5. Accessing Photosynthesis Study Guide Answers 2011 Pearson Education Free and Paid eBooks
 - Photosynthesis Study Guide Answers 2011 Pearson Education Public Domain eBooks
 - Photosynthesis Study Guide Answers 2011 Pearson Education eBook Subscription Services
 - Photosynthesis Study Guide Answers 2011 Pearson Education Budget-Friendly Options
6. Navigating Photosynthesis Study Guide Answers 2011 Pearson Education eBook Formats
 - ePub, PDF, MOBI, and More
 - Photosynthesis Study Guide Answers 2011 Pearson Education Compatibility with Devices
 - Photosynthesis Study Guide Answers 2011 Pearson Education Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photosynthesis Study Guide Answers 2011 Pearson Education
 - Highlighting and Note-Taking Photosynthesis Study Guide Answers 2011 Pearson Education
 - Interactive Elements Photosynthesis Study Guide Answers 2011 Pearson Education
8. Staying Engaged with Photosynthesis Study Guide Answers 2011 Pearson Education
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photosynthesis Study Guide Answers 2011 Pearson Education
9. Balancing eBooks and Physical Books Photosynthesis Study Guide Answers 2011 Pearson Education
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photosynthesis Study Guide Answers 2011 Pearson Education
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Photosynthesis Study Guide Answers 2011 Pearson Education
 - Setting Reading Goals Photosynthesis Study Guide Answers 2011 Pearson Education
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Photosynthesis Study Guide Answers 2011 Pearson Education
 - Fact-Checking eBook Content of Photosynthesis Study Guide Answers 2011 Pearson Education
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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