

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.

Energy Study Guide Photosynthesis Review Answers

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Table of Contents Energy Study Guide Photosynthesis Review Answers

1. Understanding the eBook Energy Study Guide Photosynthesis Review Answers
 - The Rise of Digital Reading Energy Study Guide Photosynthesis Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Energy Study Guide Photosynthesis Review Answers
 - 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 Energy Study Guide Photosynthesis Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Study Guide Photosynthesis Review Answers
 - Personalized Recommendations
 - Energy Study Guide Photosynthesis Review Answers User Reviews and Ratings
 - Energy Study Guide Photosynthesis Review Answers and Bestseller Lists
5. Accessing Energy Study Guide Photosynthesis Review Answers Free and Paid eBooks
 - Energy Study Guide Photosynthesis Review Answers Public Domain eBooks
 - Energy Study Guide Photosynthesis Review Answers eBook Subscription Services

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