

AP Biology Unit 3: Cellular Energetics

Chapter 8: An Introduction to Metabolism

Metabolism and Energy

-Metabolism: the totality of an organism's chemical reactions

- Metabolic Pathway: begins with a specific molecule and ends with a product, each step catalyzed by a specific enzyme (the product of the first reaction becomes the reactant for the second reaction, and so on)

-Catabolic Pathways: release energy by breaking down complex molecules into simpler compounds

- cellular respiration (glucose is broken down to CO_2 and H_2O in the presence of O_2)

-Anabolic Pathways: consume energy to build complex molecules from simpler ones

- the synthesis of a protein from simpler amino acids

-Energy exists in various forms, some of which can perform work in the cell (transport, chemical, mechanical, structural)

- thermal energy: kinetic energy associated with the random movement of molecules or atoms (when kinetic energy is increased, molecules begin to move faster and can overcome the activation energy barrier needed to break substrate bonds)
- chemical energy: potential energy available for release in a chemical reaction when bonds are broken

The Laws of Thermodynamics

-The First Law of Thermodynamics: energy can be transferred and transformed but it cannot be destroyed

- the energy of the universe is constant (the principle of the conservation of energy)

-The Second Law of Thermodynamics: every energy transfer or transformation increases the entropy (disorder) of the universe

- during every energy transfer, some energy is unusable and is often lost as heat

Biology Unit 3 Study Guide Key

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Table of Contents Biology Unit 3 Study Guide Key

1. Understanding the eBook Biology Unit 3 Study Guide Key
 - The Rise of Digital Reading Biology Unit 3 Study Guide Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Unit 3 Study Guide Key
 - 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 Biology Unit 3 Study Guide Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Unit 3 Study Guide Key
 - Personalized Recommendations
 - Biology Unit 3 Study Guide Key User Reviews and Ratings

- Biology Unit 3 Study Guide Key and Bestseller Lists
- 5. Accessing Biology Unit 3 Study Guide Key Free and Paid eBooks
 - Biology Unit 3 Study Guide Key Public Domain eBooks
 - Biology Unit 3 Study Guide Key eBook Subscription Services
 - Biology Unit 3 Study Guide Key Budget-Friendly Options
- 6. Navigating Biology Unit 3 Study Guide Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Unit 3 Study Guide Key Compatibility with Devices
 - Biology Unit 3 Study Guide Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Unit 3 Study Guide Key
 - Highlighting and Note-Taking Biology Unit 3 Study Guide Key
 - Interactive Elements Biology Unit 3 Study Guide Key
- 8. Staying Engaged with Biology Unit 3 Study Guide Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Unit 3 Study Guide Key
- 9. Balancing eBooks and Physical Books Biology Unit 3 Study Guide Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Unit 3 Study Guide Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Unit 3 Study Guide Key
 - Setting Reading Goals Biology Unit 3 Study Guide Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Unit 3 Study Guide Key
 - Fact-Checking eBook Content of Biology Unit 3 Study Guide Key
 - 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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