

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

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Table of Contents Biology Unit 3 Study Guide Answer Key

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

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 - Biology Unit 3 Study Guide Answer Key eBook Subscription Services
 - Biology Unit 3 Study Guide Answer Key Budget-Friendly Options
6. Navigating Biology Unit 3 Study Guide Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Biology Unit 3 Study Guide Answer Key Compatibility with Devices
 - Biology Unit 3 Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Biology Unit 3 Study Guide Answer Key
 - Highlighting and Note-Taking Biology Unit 3 Study Guide Answer Key
 - Interactive Elements Biology Unit 3 Study Guide Answer Key
8. Staying Engaged with Biology Unit 3 Study Guide Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Unit 3 Study Guide Answer Key
9. Balancing eBooks and Physical Books Biology Unit 3 Study Guide Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Unit 3 Study Guide Answer 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 Answer Key
- Setting Reading Goals Biology Unit 3 Study Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Unit 3 Study Guide Answer Key
- Fact-Checking eBook Content of Biology Unit 3 Study Guide Answer 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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