

AP BIOLOGY

UNIT 1 Chemistry of Life

1.1 Structure of Water and Hydrogen Bonding

- The subcomponents of biological molecules and their sequence determine the properties of that molecule.
- Living systems depend on properties of water that result from its polarity and hydrogen bonding.
- The hydrogen bonds between water molecules result in cohesion, adhesion, and surface tension.

1.2 Elements of Life

- Organisms must exchange matter with the environment to grow, reproduce, and maintain organization.
- Atoms and molecules from the environment are necessary to build new molecules—
 - a. Carbon is used to build biological molecules such as carbohydrates, proteins, lipids, and nucleic acids. Carbon is used in storage compounds and cell formation in all organisms.
 - b. Nitrogen is used to build proteins and nucleic acids. Phosphorus is used to build nucleic acids and certain lipids.

1.3 Introduction to Biological Macromolecules

- Hydrolysis and dehydration synthesis are used to cleave and form covalent bonds between monomers

1.4 Properties of Biological Macromolecules

Ch 15 Ap Biology Study Guide

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Table of Contents Ch 15 Ap Biology Study Guide

1. Understanding the eBook Ch 15 Ap Biology Study Guide
 - The Rise of Digital Reading Ch 15 Ap Biology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ch 15 Ap Biology Study Guide
 - 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 Ch 15 Ap Biology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ch 15 Ap Biology Study Guide
 - Personalized Recommendations
 - Ch 15 Ap Biology Study Guide User Reviews and Ratings
 - Ch 15 Ap Biology Study Guide and Bestseller Lists
5. Accessing Ch 15 Ap Biology Study Guide Free and Paid eBooks
 - Ch 15 Ap Biology Study Guide Public Domain eBooks
 - Ch 15 Ap Biology Study Guide eBook Subscription Services
 - Ch 15 Ap Biology Study Guide Budget-Friendly Options

6. Navigating Ch 15 Ap Biology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ch 15 Ap Biology Study Guide Compatibility with Devices
 - Ch 15 Ap Biology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ch 15 Ap Biology Study Guide
 - Highlighting and Note-Taking Ch 15 Ap Biology Study Guide
 - Interactive Elements Ch 15 Ap Biology Study Guide
8. Staying Engaged with Ch 15 Ap Biology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ch 15 Ap Biology Study Guide
9. Balancing eBooks and Physical Books Ch 15 Ap Biology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ch 15 Ap Biology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ch 15 Ap Biology Study Guide
 - Setting Reading Goals Ch 15 Ap Biology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ch 15 Ap Biology Study Guide
 - Fact-Checking eBook Content of Ch 15 Ap Biology Study Guide
 - 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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