Chapter 2 The Chemistry of Biology

Atoms, Bonds, and Molecules

: all tangible materials that occupy space and have mass

Atom: a tiny particle that cannot be subdivided into smaller substances without losing its properties

Properties of atoms:

- Protons (p*): positively charged, found in the nucleus
- Neutrons (n⁰): no charge, also found in the nucleus
- Electrons (e'): negatively charged, surround the nucleus

Electron Orbitals and Shells

Atomic number of protons
Atomic mass: number of protons and neutrons

Orbidal

Pathways in which electrons rotate around the nucleus

Models of Atomic Structure

in image

Major Elements of Life and Their Primary

Characteristics 1

Element :

An atom with a characteristic atomic structure and predictable chemical behavior

Bonds and Molecules 1

Molecule

- A chemical substance that results from the combination of two or more atoms
- O₂, N₂

Compound

- A molecule composed of two or more different elements
- H₂O₂ C₆H₁₂O₆

Bonds and Molecules 2

Chemical bonds:

Result when two or more atoms share, donate (lose), or accept (gain) electrons

Covalent Bonds and Polarity 1

Covalent bonds

- Form between atoms that share electrons rather than donating or receiving them
- Single covalent bonds share a pair of electrons (H₂)
- Double _____ covalent bonds share two pairs of electrons and are more rigid

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- 1. Understanding the eBook Holt Biology Chapter 2quiz
 - The Rise of Digital Reading Holt Biology Chapter 2quiz
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Holt Biology Chapter 2quiz
 - 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 Holt Biology Chapter 2quiz
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Holt Biology Chapter 2quiz
 - Personalized Recommendations

- Holt Biology Chapter 2quiz User Reviews and Ratings
- Holt Biology Chapter 2quiz and Bestseller Lists
- 5. Accessing Holt Biology Chapter 2quiz Free and Paid eBooks
 - Holt Biology Chapter 2quiz Public Domain eBooks
 - Holt Biology Chapter 2quiz eBook Subscription Services
 - Holt Biology Chapter 2quiz Budget-Friendly Options
- 6. Navigating Holt Biology Chapter 2quiz eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Holt Biology Chapter 2quiz Compatibility with Devices
 - Holt Biology Chapter 2quiz Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Holt Biology Chapter 2quiz
 - Highlighting and Note-Taking Holt Biology Chapter 2quiz
 - Interactive Elements Holt Biology Chapter 2quiz
- 8. Staying Engaged with Holt Biology Chapter 2quiz
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Biology Chapter 2quiz
- 9. Balancing eBooks and Physical Books Holt Biology Chapter 2quiz
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Biology Chapter 2quiz
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Biology Chapter 2quiz
 - Setting Reading Goals Holt Biology Chapter 2quiz
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Biology Chapter 2quiz
 - Fact-Checking eBook Content of Holt Biology Chapter 2quiz

- 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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