

Chapter 2

The Chemistry of Biology

Atoms, Bonds, and Molecules

Matter: 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 (n^0): no charge, also found in the nucleus
- Electrons (e^-): negatively charged, surround the nucleus

Electron Orbitals and Shells

Atomic number: number of protons

Atomic mass: number of protons and neutrons

Orbital:

- Pathways in which electrons rotate around the nucleus

Models of Atomic Structure

↳ 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.
- O_2 , N_2

Compound:

- A molecule composed of two or more *different* elements
- H_2O , $C_6H_{12}O_6$

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 (H_2)
- Double covalent bonds share two pairs of electrons and are more rigid

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Rodney Arthur Slagg

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Holt Biology Chapter 2quiz

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
 - 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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