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CHAPTER 2 – The Chemistry of Life

CHAPTER OUTLINE

2.1 Atoms Make Up All Matter

- A. Elements Are Fundamental Types of Matter
- B. Atoms Are Particles of Elements
- C. Isotopes Have Different Numbers of Neutrons

2.2 Chemical Bonds Link Atoms

- A. Electrons Determine Bonding
- B. In an Ionic Bond, One Atom Transfers Electrons to Another Atom
- C. In a Covalent Bond, Atoms Share Electrons
- D. Partial Charges on Polar Molecules Create Hydrogen Bonds

2.3 Water Is Essential to Life

- A. Water Is Cohesive and Adhesive
- B. Many Substances Dissolve in Water
- C. Water Regulates Temperature
- D. Water Expands as It Freezes
- E. Water Participates in Life's Chemical Reactions

2.4 Cells Have an Optimum pH

2.5 Cells Contain Four Major Types of Organic Molecules

- A. Large Organic Molecules Are Composed of Smaller Subunits
- B. Carbohydrates Include Simple Sugars and Polysaccharides
- C. Proteins Are Complex and Highly Versatile
- D. Nucleic Acids Store and Transmit Genetic Information
- E. Lipids Are Hydrophobic and Energy-Rich

LEARNING OUTCOMES

- 02.00.01 Explain the relationship between chemistry and biology.
- 02.01.01 Identify the most important elements in living organisms.
- 02.01.02 Describe the structure of atoms.
- 02.02.01 Compare and contrast the different types of bonds.
- 02.02.02 Differentiate between atoms and molecules.

Hoefnagels Lab Manual

Jin-Ying Zhang



Hoefnagels Lab Manual:

The Enigmatic Realm of **Hoefnagels Lab Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Hoefnagels Lab Manual** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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