

Chapter 2: The Chemistry of Life

State Standards

Central Concept: Chemical elements form organic molecules that interact to perform the basic functions of life.

- 1.1 Recognize that biological organisms are composed primarily of many few elements. The six most common are Carbon, Hydrogen, Nitrogen, Oxygen, Phosphorus, and Sulfur.
- 1.2 Describe the basic molecular structures and primary functions of the four major categories of organic molecules (carbohydrates, lipids, proteins, and nucleic acids).
- 1.3 Explain the role of enzymes as catalysts that lower the activation energy of biochemical reactions. Identify factors, such as pH and temperature, that have an effect on enzymes.

Key Terms

Atom	Adhesion	Disaccharide
Nucleus	Mixture	Lipid
Proton, Neutron, Electron	Solution	Nucleic Acid
Element	Solute	Nucleotide
Isotope	Solvent	Protein
Compound	Suspension	Amino Acid
Ionic Bond	pH Scale	Chemical Reaction
Ion	Acid	Reactant
Covalent Bond	Base	Product
Molecule	Buffer	Activation Energy
Van der Waals Forces	Monomer	Catalyst
Hydrogen Bond	Polymer	Enzyme
Cohesion	Carbohydrate	Substrate

You should be able to:

1. Identify the three subatomic particles found in atoms.
2. Explain how all of the isotopes of an element are similar and how they are different.
3. Explain how compounds are different from their component elements.
4. Describe the two main types of chemical bonds.
5. Discuss the unique properties of water.
6. Differentiate between solutions and suspensions.
7. Explain what acidic solutions and basic solutions are.
8. Describe the unique qualities of carbon.
9. Describe the structures and functions of each of the four groups of macromolecules.
10. Explain how chemical reactions affect chemical bonds.
11. Describe how energy changes affect how easily a chemical reaction will occur.
12. Explain why enzymes are important to living things.

Biology Chapter 2 The Chemistry Of Life Study Guide

Shirley Clough



Biology Chapter 2 The Chemistry Of Life Study Guide:

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer [Study Guide for Structure & Function of the Body](#) Kevin T. Patton, PhD, 2015-11-18 Learn to master the core terms concepts and processes of human anatomy and physiology Corresponding to the chapters in Thibodeau and Patton's *Structure Function of the Body* 15th Edition this engaging study guide contains variety of exercises activities and anatomy drawings to help you easily review retain and apply important A P concepts Brief synopsis of the core concepts from the textbook provides a comprehensive review of essential content Diagrams labeling exercises and coloring exercises reinforce where the structures of the body are located Crossword puzzles and word finds help readers master new vocabulary terms Application questions ask readers to make judgments based on the information in the chapter Matching and fill in the blank exercises help readers better understand chapter content Study tips in the preface provide insights on the most effective methods for learning and retaining information Answers to exercises in the back of the book include references to the appropriate textbook page to give readers instant feedback NEW Updated art throughout enhances learning by presenting anatomy even more clearly [Study Guide for Structure & Function of the Body - E-Book](#) Kevin T. Patton, Gary A. Thibodeau, Linda Swisher, 2023-07-23 NEW Updated content reflects the changes made to the new edition of the *Structure and Function* text **Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990

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