

# Chapter 2: The Chemistry of Life

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## Learning 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	Monosaccharide
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.

# Chapter The Chemistry Of Life Study Guide Answers

**Carl S. Pike**



## Chapter The Chemistry Of Life Study Guide Answers:

**Study Guide to Chemistry and Life** John William Hill, Dorothy M. Feigl, 1978 *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 *Chemistry and Life* John W. Hill, 1997 *Study Guide and Full Solutions Manual* Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook **Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition** John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter **Study Guide for Life on Earth** Carl S. Pike, 1973 *Chemistry and Life* John William Hill, Dorothy M. Feigl, Stuart J. Baum, 1993 Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition Susan McMurry, 2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Prize winners in Chemistry This edition now includes all new artwork expanded in text problems summary quizzes approximately every three chapters more detailed explanations in solutions and chapter outlines *Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News *Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1992 Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease Barbara Janson Cohen, Memmler, 1996 *Life* William K. Purves, 2001 Authoritative thorough and engaging Life The Science of Biology achieves an optimal balance of scholarship and teachability never losing sight of either the science or the student The first introductory text to present biological concepts through the research that revealed them Life covers the full range of topics with an integrated experimental focus that flows naturally from the narrative This approach helps to bring the drama of classic and cutting edge research to the classroom but always in the context of reinforcing core ideas and the innovative scientific thinking behind them Students will experience biology not just as a litany of facts or a highlight reel of experiments but as a rich coherent discipline *Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for*

Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application **The Developing Person Through the Life Span Study Guide** Richard O. Straub, 2004-04-30 This study guide is designed for use with The Developing Person Through the Life Span Sixth Edition by Kathleen Stassen Berger It is intended to help students evaluate their understanding of that material and to review any problem areas Sections such as How to Manage Your Time Efficiently Study more effectively and Think Critically provide detailed instructions on how to use the textbook Each chapter includes a Chapter Overview a set of Guided Study questions a Chapter Review section and three review tests Preface *Study Guide to Accompany Seasons of Life 4e Telecourse* Berger, Kathleen Stassen Berger, 2000-12-08 Understanding Earth Student Study Guide Peter L. Kresan, Reed Mencke, 2006-05-03 The guide helps students prepare for lectures and exams with a heavy emphasis on utilizing the book's Web resources Student Study Guide to Accompany Human Biology Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis *The Study Guide for Developing Person Through the Life Span* Kathleen Stassen Berger, 2007-12-24 This seventh edition comes with a significant revision of cognitive development through childhood revised and updated chapters on adolescence and more attention to emerging and early adulthood **Biology** Glencoe/McGraw-Hill, 1994-07

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