

## CHAPTER 2 WORKSHEET: CHEMISTRY OF LIFE

### 1. Chapter 2, Section 1: Nature of Matter

- a. Matter: anything that occupies space. Ex: Desk, Human, Air, ect.
- b. Atom: Smallest part of matter. It **can not** be broken down into smaller pieces. Composed of 3 particles: Protons (+), Electrons (-), and Neutrons (n)
- c. Element: Substance that is only made of one kind of atom. Ex: Hydrogen, Oxygen, ect.
  - i. C, H, N, O, P, S
- d. Compound: Two or more different atoms or elements joined together. Ex: Salt =
- e. Covalent Bond: Two or more atoms sharing electrons to form a molecule. Covalent bonds make molecules, ex: Water, Carbon Dioxide, and Oxygen Gas
- f. Hydrogen Bond: A weak chemical attraction between **polar** molecules. Ex: Two water molecules
- g. Ionic Bond: Gain or Loss of electrons that create a molecule
- h. Ion: An atom that has gained (-) electrons or (loss) electrons (+)

### 2. Chapter 2, Section 2: Water and Solutions

- a. How does water help maintain homeostasis?
  - i. Heats slowly
  - ii. Retains heat
  - iii. Carries Heat away through water vapor (sweating)
  - iv. Universal solvent (anything except for a polar substance can dissolve in it)
- b. What is the difference between adhesion & cohesion?
  - i. Adhesion: different substances
  - ii. Cohesion: alike substances
- c. What is the pH range for an Acid? Base?
  - i. Acid = 0 – 6.9
  - ii. Neutral = 7
  - iii. Base = 7.1 – 14
- d. What type of substance is an example of an acid? Of a base?
  - i. Acids: Lemon, Vinegar, Milk
  - ii. Bases: Household cleaning material

### 3. Chapter 2, Section 3: Chemistry of Cells

- a. Carbohydrates: Organic substances, made up of carbon, hydrogen and oxygen atoms. Always in the ratio of 1:2:1. Key source of energy.
  - i. They are made up of Monosaccharide: Single sugars (glucose)
  - ii. Disaccharides are double sugars: Sucrose
  - iii. Polysaccharides: Starch and cellulose

# Chapter 2 The Chemistry Of Life Answer Key

**Gary A. Thibodeau, Kevin T. Patton**



## **Chapter 2 The Chemistry Of Life Answer Key:**

*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** Eric L. Sun, Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2024-06-19 Reinforce your understanding of A P concepts with this practical study guide With chapters corresponding to those in the *Structure Function of the Body* 17th Edition textbook this workbook provides review questions and exercises to help you master the most important material Each chapter begins with an overview of the concepts covered in each chapter of the textbook and then tests your understanding with a variety of questions and activities Answers to all questions are included in the back of the book NEW Updated content corresponds to the updates in the *Structure Function of the Body* 17th Edition textbook Brief synopsis of core concepts in each chapter provides an overview of the most essential content from the textbook Matching multiple choice fill in the blank and true false exercises reinforce your understanding of content Crossword puzzles and Word Finds help you master new vocabulary terms and their spellings Anatomy drawings and labeling exercises help you learn to identify the structures of the body and master terminology Application questions help you develop critical thinking skills and make judgments based on information in the chapter Answers to exercises are found in the back of the guide Study tips in the Preface offer insights into the most effective methods for learning and retaining information

**Life** David E. Sadava, 2008 This text aims to establish biology as a discipline not just a collection of facts Life develops students understanding of biological processes with scholarship a smooth narrative experimental contexts art and effective pedagogy **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 *What Is Life?* Jay Phelan, Jennifer Warner, Meredith Norris, 2009-04-03 Jay Phelan's *What Is Life: A Guide to Biology* is written in a delightfully readable style that communicates complex ideas to non biology majors in a clear and approachable manner After reading Phelan's book students will understand why they would want to know and talk about science His skillful style includes asking stimulating questions called Q questions which encourage the student to keep reading to find the answer and will illuminate just how relevant science is to their life Visit the *What Is Life* preview site at [www.whfreeman.com/phelanpreview](http://www.whfreeman.com/phelanpreview) **Chemistry** McGraw-Hill Staff, 2001-03 **Study Guide to Accompany Structure and Function of the Body** Linda Swisher, Gary A. Thibodeau, 2003-11 This comprehensive resource provides a variety of exercises for readers to apply and test their knowledge It contains matching fill in the blanks crossword puzzles word find unscramble the word application questions diagrams and page number references in the answer key December 2003 **Biology**, 1998 *Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease* Barbara Janson Cohen, Memmler, 1996 Glencoe Science McGraw-Hill Staff, 2001-08 **Principles of Life** David M. Hillis, David E. Sadava, Richard Hill, Mary V. Price, 2014-07-15 With its first edition *Principles of Life* provided a textbook well aligned with the recommendations proposed in BIO 2010 Transforming Undergraduate Education for Future Research Biologists and Vision and Change in Undergraduate Biology Education Now *Principles of Life* returns in a thoroughly updated new edition that exemplifies the reform that is remaking the modern biology classroom **Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-03 **Study Guide for Life on Earth** Carl S. Pike, 1973 *Biology, Science and Life* Wallace, Tietjen, 1996 **Inquiry Into Life** Leslie J. Wiemerslage, Sylvia S. Mader, 1994-02 Basic biological concepts and processes with a human emphasis From the unique delivery of biology content to the time tested art program to the complete integration of the text with technology Dr Sylvia Mader has formed a teaching system that will both motivate and enable your students to understand and appreciate the wonders of all areas of biology *Inquiry into Life* 12 e emphasizes the application of all areas of biology to knowledge of human concerns what the students are able to relate to This distinctive text was developed to stand apart from all other non majors texts with a unique approach unparalleled art and a straightforward succinct writing style that has been acclaimed by both users and reviewers *Anthony's Textbook of Anatomy & Physiology* Gary A. Thibodeau, Kevin T. Patton, 2003 *Anatomy* it focuses on concepts rather than just descriptions to help students unify information Critical thinking learning opportunities are integrated throughout The text uses a big picture theme of body function and also explains the body's homeostatic regulation Many pedagogical features and hundreds of 4 color illustrations enhance the narrative New illustrations have been added to the 5th edition Revised Career Choices boxes and each unit and current topics such as anthrax and the human genome project are addressed in feature boxes New and updated artwork illustrates the most current scientific knowledge

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**Memmler's Structure and Function** Barbara Janson Cohen, Ruth Lundeen Memmler, 1995-12. *Loose-leaf Version for Principles of Life* David M. Hillis, David E. Sadava, Richard W. Hill, Mary V. Price, 2013-12-01. With its first edition *Principles of Life* provided a textbook well aligned with the recommendations proposed in BIO 2010 Transforming Undergraduate Education for Future Research Biologists and Vision and Change in Undergraduate Biology Education. Now *Principles of Life* returns in a thoroughly updated new edition that exemplifies the reform that is remaking the modern biology classroom.

*Human Biology* Daniel D. Chiras, 1999. With DaVinci's ubiquitous Vitruvian Man as a text icon, even subjected to X-ray. Chiras, U of Colorado, U of Denver introduces students to the basics of life in the balance from molecules to humankind in 24 chapters. Updates to this edition: no dates are given for previous ones include relevant *Anatomy & Physiology* Gary A. Thibodeau, Kevin T. Patton, 2003. CD-ROM builds on the textbook content. Includes exercises, quizzes, movie clips, etc.

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