

Chapter 2 Active Reading Guide

The Chemical Context of Life

This chapter covers the basics that you may have learned in your chemistry class. Whether your teacher goes over this chapter, or assigns it for you to review on your own, the questions that follow should help you focus on the most important points.

Section 1

1. Define and give an example of the following terms:

Term	Definition
matter:	All physical substances.
element:	Chemical substances that cannot be broken down
compound:	A mix of two or more elements.

2. What four elements make up 96% of all living matter?

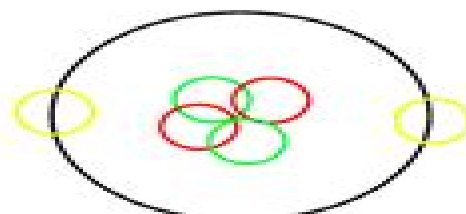
Carbon, Oxygen, Hydrogen, and Nitrogen

3. What is the difference between an *essential element* and a *trace element*?

While essential elements are needed in large quantities for an organism to live a healthy life, trace elements are needed in very little amounts.

Section 2

4. Sketch a model of an atom of helium, showing the electrons, protons, and neutrons, and atomic nucleus.



5. What is the atomic number of helium? 2 Its atomic mass? 4

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Biology/science Materials Carolina Biological Supply Company, 1991 *Student Study Guide for Campbell's Biology Second Edition* Martha R. Taylor, 1990 **Oral Biology** Mr. Rohit Manglik, 2024-07-30 Covers the biological and physiological aspects of the oral cavity including tooth development salivary function and oral microflora essential for dental education *Student Study Guide for Biology [by] Campbell/Reece* Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests [A Guide to Undergraduate Science Course and Laboratory Improvements](#) National Science Foundation (U.S.). Directorate for Science Education, 1979 **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 [Biology, Science and Life](#) Wallace, Tietjen, 1996 *Study Guide for 31840 - Biology-First Edition* Neil A. Campbell, 1987 [Teacher's Guide to the Modern Biology Program](#) James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965 *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 to Accompany Biology, the Science of Life, Third Edition** W. J. Leverich, 1991 **Study Guide to Accompany Raven and Johnson Biology** David A. Stetler, 1986 **Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp** Russell C. Hollingsworth, 1979 **Telecourse Cycles of Life** Gerald L. Kellogg, Starr, 1999-07 This guide provides students with a road map through the telecourse and contains assignments for reading viewing and doing related activities plus overviews of the content of each lesson and the accompanying video program For information about bundling it with any Starr textbook contact your Cengage Learning representative [Rodak's Hematology - E-Book](#) Elaine M. Keohane, Larry Smith, Jeanine M. Walenga, 2015-02-19 Featuring hundreds of full color photomicrographs Rodak's Hematology Clinical Principles and Applications 5th Edition prepares you for a job in the clinical lab by exploring the essential aspects of hematology It shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins This text also makes it easy to understand complementary testing areas such as flow

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