

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?

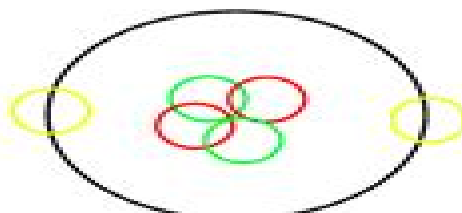
Carbon, Oxygen, Hydrogen, and Nitrogen

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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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 *Student Study Guide for Biology [by] Campbell/Reece/Mitchell* Martha R. Taylor, 1999 *5 Steps to a 5: AP Biology 2020 Elite Student Edition* Mark Anestis, Kellie Ploeger Cox, 2019-12-26 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product MATCHES THE NEW EXAM Get ready to ace your AP Biology Exam with this easy to follow multi platform study guide Teacher Recommended and Expert Reviewed 5 Steps to a 5 AP Biology 2020 Elite Student Edition introduces an effective 5 step study plan to help you build the skills knowledge and test taking confidence you need to achieve a high score on the exam This popular test prep guide matches the latest course syllabus and includes online help 3 full length practice tests detailed answers to each question study tips and important information on how the exam is scored Because this guide is accessible in print and digital formats you can study online via your mobile device straight from the book or any combination of the three With the 5 Minutes to a 5 section you'll also get an extra AP curriculum activity for each school day to help reinforce the most important AP concepts With only 5 minutes a day you can dramatically increase your score on exam day Your Perfect Plan for the Perfect Score Includes 3 Practice Exams that match the latest exam requirements 5 Minutes to a 5 section concise activities reinforcing the most important AP concepts and presented in a day to day study format Hundreds of exercises with thorough answer explanations Practice questions that reflect grid ins and multiple choice questions just like the ones you will see on test day Comprehensive overview of the AP Biology exam format Powerful analytics you can use to assess your test readiness Flashcards games and more

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