

## 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?

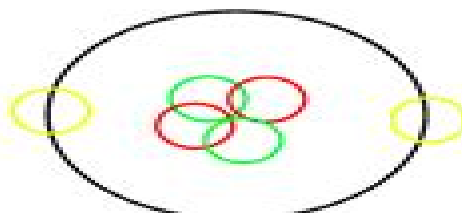
Carbon, Oxygen, Hydrogen, and Nitrogen

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

# Active Guide Ap Biology Answers

**K Morrison**



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**Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs *CD-ROM Guide*, 1994 **Readers' Guide to Periodical Literature**, 1906 *Resources in Education*, 1997-04 Biology Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter **The American Biology Teacher**, 1999 *Biology* Teresa Audesirk, Gerald Audesirk, 1999 2000 2005 State Textbook Adoption Rowan Salisbury **Principles of Life** David M. Hillis, 2012 For sample chapters a video interview with David Hillis and more information visit [www.whfreeman.com/hillispreview](http://www.whfreeman.com/hillispreview) Sinauer Associates and W H Freeman are proud to introduce Principles of Life Written in the spirit of the reform movement that is reinvigorating the introductory majors course Principles of Life cuts through the thicket of excessive detail and factual minutiae to focus on what matters most in the study of biology today Students explore the most essential biological ideas and information in the context of the field's defining experiments and are actively engaged in analyzing research data The result is a textbook that is hundreds of pages shorter and significantly less expensive than the current majors introductory books *Journal of Psychology in Africa (south of the Sahara, the Caribbean, and Afro-Latin America)*, 2008 **Journal of Psychology in Africa**, 2008 **Educational Research Bulletin**, 1926 Century Path, 1903 Normal Instructor and Teachers World, 1918 **Wilford's Microcosm**, 1882 **El-Hi Textbooks and Serials**

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