

## 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?

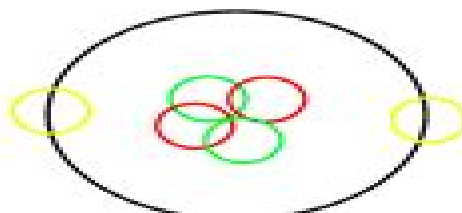
Carbon, Oxygen, Hydrogen, and Nitrogen

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

# Ap Biology Reading Guide Chapter 1 Answers

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## **Ap Biology Reading Guide Chapter 1 Answers:**

**AP Biology Study Guide** Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

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