

CHAPTER 7 THE CHEMISTRY OF LIFE

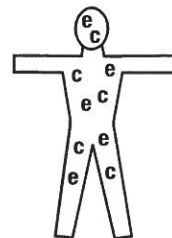
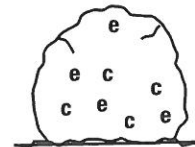
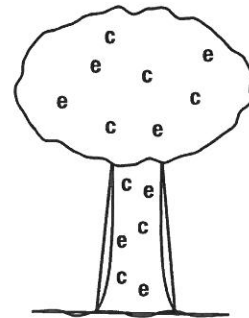
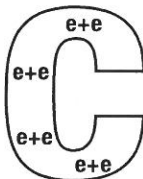
Get the Big Picture

Read what's in the boxes and study the pictures. Then fill in the blanks in the statements below.

Atom
<ul style="list-style-type: none"> • smallest particle of an element • contains protons, neutrons, and electrons

Element
<ul style="list-style-type: none"> • made of atoms • cannot be broken down into simpler substances • hydrogen and oxygen are elements

Compound
<ul style="list-style-type: none"> • made up of chemically combined elements • water is a compound, made up of hydrogen and oxygen

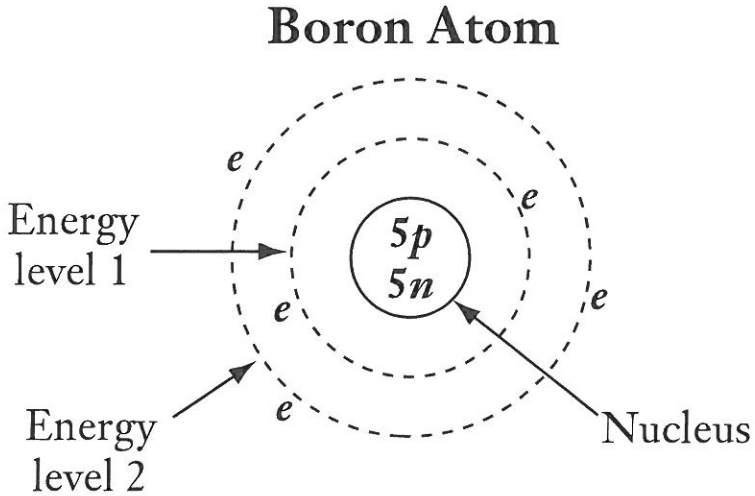


1. Elements are made up of _____.
2. Inside the atoms are _____, _____, and _____.
3. Elements combine to form _____.
4. All living and nonliving things are made up of _____ and _____.

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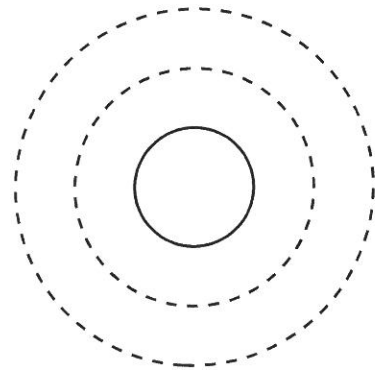
Section 7.1 Elements and Atoms
Section 7.2 Interactions of Matter
Section 7.3 Life Substances
Study the Diagram

Use the diagram to answer the questions.



1. An atom of boron contains _____ protons, _____ neutrons, and _____ electrons.
2. An oxygen atom contains 8 protons and 8 neutrons. It has 2 electrons in its first energy level. It has 6 electrons in its second energy level. In the space below, draw an atom of oxygen. Be sure to show the protons, neutrons, electron energy levels, and electrons.

Oxygen Atom



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