

Chapter 2: The Chemistry of Life

Reading Guide

Name: _____

Date: _____ Class Period: _____

Case Study - Something is Missing, But What? (p.42)

1. _____ The disorder known as cretinism is found in ____ areas.
a. inland b. coastal c. both
2. _____ Goiter is a condition in which the ____ gland increases in size causing a swelling of the neck and throat.
a. adrenal b. thyroid c. prostate

Lesson 2.1 The Nature of Matter (p. 43)

Atoms - Matching

3. _____ The basic unit of matter, named by the Greek philosopher Democritus.
4. _____ positively charged particles found in the nucleus
5. _____ particles found in the nucleus with no charge
6. _____ negatively charged particles moving in the space surrounding the nucleus
7. _____ Layer of electrons that contains no more than two electrons
8. _____ Layer of electrons that can contain up to eight electrons
9. _____ An atom is electrically ____ if the number of protons and electrons is equal

A. Atoms
B. Electron
C. First shell
D. Neutral
E. Neutron
F. Proton
G. Second shell

Elements and Isotopes, Chemical Compounds, & Chemical Bonds (p. 43-46)

Complete the sentence by unscrambling the letters.

10. A chemical _____ (element) is a pure substance that consists entirely of one type of atom.
11. The chemical symbol C stands for _____ (carbon).
12. The chemical symbol H stands for _____ (hydrogen).
13. A chart showing all of the elements is called the _____ (periodic) table.
14. Atoms of the same element that differ in the number of neutrons are called _____ (isotopes).
15. Some isotopes are _____ (radioactive), meaning that their nuclei are unstable and break down over time.
16. A chemical _____ (compound) is a substance formed by the chemical combination of two or more elements.
17. The atoms in a compound are held together by chemical _____ (bonds).
18. Positively or negatively charged atoms are known as _____ (ions).

Chapter 2 Reading Guide Answers Biology

**Judith L. Irvin, Douglas R. Buehl, Ronald
M. Klemp**



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