

Study Guide

CHAPTER 6

Section 1: Atoms, Elements, and Compounds

In your textbook, read about the structure of atoms.

Label the diagram of an atom. Use these choices:

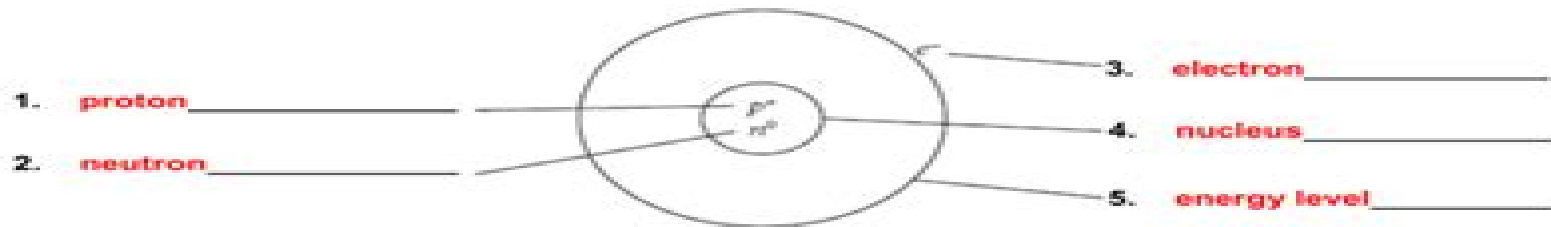
electron

energy level

neutron

nucleus

proton



In your textbook, read about elements, compounds, and chemical bonds.

If the statement is true, write true. If the statement is false, replace the italicized term or phrase to make it true.

6. On the periodic table, each element has a unique name and *formula*.

Symbol

7. The periodic table is organized into horizontal rows, called periods, and vertical columns, called *elements*.

group

8. *Water* is composed of hydrogen and oxygen.

true

9. Atoms of the same element that have different numbers of neutrons are called *isotopes*.

true

10. The *period* of an element is the amount of time it takes for half of a radioactive isotope to decay.

Half-life

11. A *combination* is a substance formed when two or more different elements combine.

compound

12. The two main types of chemical bonds are *covalent bonds* and *van der Waals forces*.

Covalent bond and ionic bond

Atoms And Chemistry Study Guide Key

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