# 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	
			3.	electron	
1. proton		(")—	4.	nucleus	
2. neutron_	-				
	_		5.	energy level	

#### 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

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

group

8. Water is composed of hydrogen and oxygen.

rue

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

TUE

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**

**Thomas Griffiths** 

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