

## **COMPOUNDS AND REACTIONS** from the *Elements of Chemistry Series* **Post-Test**

Directions: Fill in the blank with the appropriate term from the list below.

c: cl	node athode hemical reaction	electron element ionic bond	mixtures molecules orbitals	polarity proton radiation
	lectrochemistry	mass	oxidation	reduction
1. When there is a change in the chemical composition of a substance, it is called a				
2. When two or more ions are held together by the electrical attractions between them it is called an				
3. A covalent bond is when electrons are shared between atoms. These bonds are usually called				
4. In a battery, the place where oxidation, or the giving up of electrons, occurs is called the				
True or False Directions: Fill in the blank with True or False. If the statement is false, change it to make the statement true. Rewrite the true statement in the space provided.				
5	Nuclear changes occ	ur when electrons mov	ve from atom to atom.	
6	Ionic bonds occur wh	nen the electrons of one	e atom merge with the	electrons of another atom.
7 When electrons are shared between atoms, they form covalent bonds, or molecules.				
8 A chemical reaction only occurs when molecules are formed.				
9	Oxidation-reduction,	or redox reactions, oc	cur when molecules n	nerge.
Essay Section Directions: Answer the following questions in complete sentences. Use the back of this page or a separate sheet of paper to complete your answers.				
10. Explain how ionic bonds are formed.				
11. Explain how covalent bonds are formed.				

12. Explain the term chemical reaction.