

Review Pak #1
“Can I Bond with U?”

1. Complete the following table.

Element Name	Element Symbol	Number of Protons	Number of Neutrons	Number of Electrons
Oxygen				
	Na			
Neon				
	Fe			

2. Complete the following table.

Element Name	Element Symbol	Metal or Nonmetal	Number of Valence Electrons
Lithium			
	P		
Potassium			
	Cl		

3. Complete the following sentences using the words ionic, covalent

(a) Atoms transfer electrons to another atom to form _____ bonds.

(b) Atoms share electrons to form _____ bonds.

(c) _____ bonds form between a metal and a nonmetal element.

(d) _____ bonds form between two or more nonmetal elements.

4. Indicate if the following are ionic compounds or molecular compounds.

(a) CH_4 _____

(b) H_2O _____

(c) MgCl_2 _____

(d) Fe_2O_3 _____

5. Name the following simple ionic compounds.

(a) CaCl_2 _____

(b) MgO _____

(c) Na_2O _____

6. Predict the formula of the ionic compound formed when the following combine.

(a) Magnesium (Mg^{2+}) and oxygen (O^{2-})

(b) Calcium (Ca^{2+}) and chlorine (Cl^-)

(c) Potassium (K^+) and oxygen (O^{2-})