

### **Ionic Bonding Worksheet #1**

- 1) What are the electrons in the outer shell of an atom that form the chemical bonds called?
- 2) What are the three main types of bonds?
- 3) Using the terms: metal and nonmetal, describe what types of atoms make up each of the three types of bonds mentioned above.
- 4) What is the name of the type of chemical bond that is formed when two electrons are shared?
- 5) What is different between an ionic bond and the bond in the above question?
- 6) How many valence electrons are there in carbon? Where do you look on the periodic table to find out?

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7) Label the following as ionic, or covalent, compounds/molecules

- a. NaCl                      c.  $K_3P$                       e.  $CCl_4$                       g.  $H_2O$   
b.  $CO_2$                       d. HBr                      f.  $AlBr_3$

8) How many Carbon atoms are in  $CO_2$ ? How many oxygen atoms are in  $CO_2$ ?

9) How many Nitrogen atoms are in  $(NH_4)_2S$ ? How many Hydrogen atoms? How many Sulfur atoms?

10) Explain how to name binary ionic compounds

11) Explain how to name polyatomic ionic compounds

Name the following ionic compounds:

- 12) LiOH                      14)  $SbCl_3$                       16)  $Sb(NO_3)_3$                       18) HgO                      20)  $Pb(NO_3)_2$   
13)  $Na_2SO_4$                       15)  $Al(OH)_3$                       17)  $Al_2(SO_4)_3$                       19)  $Fe_2S_3$                       21)  $K_2SO_3$

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