

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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