***Bonding Basics Practice***  Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Follow the steps provided by your teacher to complete each bond.

**Ionic Bonds** – Are between a \_\_\_\_\_\_\_\_\_\_\_ and a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Draw the structures for each atom
* Then show the transfer of electrons and charge for each ion.
* Write the chemical formula for each compound.

(1) Mg + Br (2) Pb + S

(3) Ga + I (4) Sn + O

**Covalent Bonds** – Are between a \_\_\_\_\_\_\_\_\_\_\_ and a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Draw the structures for each atom
* Then draw circles to show the electrons that are shared.
* Write the chemical formula for each compound.

(1) H + Cl (2) C + Cl

(3) Si + O (4)N + H

(5) Ar + F *\*hint: think about what family Ar belongs to\**

***EXTRA CREDIT (10 points)***

Using the periodic table and what you know about the difference between ionic and covalent bonds make 2 ionic and 2 covalent compounds from ANY elements you want. Then research (using a computer to textbook) each compound and tell me some information about it. Each one should include,

* A drawing of the bond between the elements you chose like we have been doing in class
* If the bond is Ionic or Covalent
* What does the substance look like
* What is the substance used for
* Is the substance dangerous or poisonous to humans?

IONIC

1. (2)

COVALENT

1. (2)