

## Atom Bonding Worksheet

Name: \_\_\_\_\_ Period: \_\_\_\_\_

**Bonding** A metal and a non-metal form an Ionic bond (transfer of electron)

**Rules:**

A non-metal and a non-metal form a Covalent bond (sharing of electrons)

A metal and a metal a Metallic bond (don't worry about until chemistry)

**Assignment:** Use pictures to show the bonding of each of the following combinations of elements

1. Write each element symbol.
2. Put proper number of valence electrons around the symbol.
3. Decide if the bond will be Ionic or Covalent.
4. If Ionic, draw an arrow showing the electron transfer.
5. If covalent, draw circles around the element's electrons including the shared electrons from the other element.
6. Write the chemical formula including the proper subscripts, if any. (+, -, Oxid. #)
7. Name the compound.

1. Sodium and Chlorine

2. Hydrogen and Iodine

3. Magnesium and Bromine

4. Hydrogen and Sulfur

5. Hydrogen and Oxygen

6. Lithium and Oxygen

7. Hydrogen and Fluorine

8. Hydrogen and Carbon

9. Sulfur and Fluorine

10. Potassium and Bromine