Covalent & Ionic Bonding Paper Model Steps

1. Decide what two, three, four, or five atoms you want to bond together by looking at a periodic table and your atoms sheets. For both covalent and ionic models, **work it out on paper first!**

2. Look up how many valence electrons the atoms you picked have and color their valance electron circles in, one color for each different element you want to use in a compound. Think ahead to where the bonds will go; color in the electrons strategically.

3. Cut out the atoms and the un-colored electron circles. Cut out the electrons strategically. Count to make sure each atom has the right number of valence electrons.

Covalent…

4. For covalent compounds, decide if it’s a single, double, or triple bond (you may want to work out the Lewis Dot structure on paper first!). Remember, for covalent compounds you will indicate a **sharing** of electrons, not a transfer.

5. Work on creating the bond first, think ahead to where the electrons will go in between the various atoms.

Ionic…

6. For ionic compounds make sure you have written out both the ion charge number as well as the number of valence electrons.

7. Remember for ionic compounds you will indicate a **transfer** of electrons not a sharing like covalent bonds.