**Basic Covalent Bonding 2019** Name:

Draw Electron Dot diagrams for the following elements.

1. Ne 2. P 3. At 4. S

5. What types of elements form a covalent bond?

6. From the following list of symbols, choose two elements that are likely to form a covalent bond: O, Ne, S, Ca, K.

7. Here are the steps for drawing Covalent Bonds:

 a. Identify the types of atoms. If NONMETAL & NONMETAL, then COVALENT!

 b. Draw electron dot diagram for each atom to see the number of valence electrons.

c. Draw Lewis Structure by playing “dot to dot” with lone electrons.

d. Check the Octet Rule for each atom. Add atoms as needed.

Draw the following Lewis Structures.

8. Cl & Cl 9. S & Te 10. H & Br 11. Si & 2O

12. Compare and contrast covalent and ionic bonds.

13. Draw the covalent bond for water.

14. Draw the covalent bond for HCl.