

Name _____ Block: _____ Date _____

CHEMISTRY 11 LEWIS STRUCTURE DIAGRAMS

1. In Electron-Dot (Lewis) structures, only the _____ electrons are represented.

2. Draw Electron-Dot structures for the following atoms:

Li	Be	B	C	N	O	F	Ne

3. a) Show the electron-dot structure of a diatomic molecule of H_2 . b) Show the electron-dot structure of a diatomic molecule of Cl_2 .

4. In **polar covalent** bonding like in a water molecule, valence electrons are (*equally/unequally*) _____ shared between the "O" and "H" atoms. Draw the electron-dot structure of water, showing how the valence electrons are shared. Also show the partial charges near the "O" atom and near the "H" atoms (Use δ^+ and δ^-)

5. Draw Lewis Structures (Electron-dot diagrams) for the following **ionic** compounds:

a) CaF_2

b) AlF_3

6. Draw Lewis Structures (Electron-dot diagrams) for the following **covalent** compounds:

