**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_ Date \_\_\_\_\_\_\_\_\_**

**Writing Lewis Structures for Covalent Compounds and Polyatomic Ions**

Draw a Lewis Dot Structure for each molecule or ion below. Show each atom (as symbol) and include shared and unshared electrons. For ions, show brackets and a charge.

|  |  |  |  |
| --- | --- | --- | --- |
| CF4 32 val e-  F  F C F  F | H2 | F2 | O2 |
| H2O | NH3 | CO2 | O3 |
| CH3Cl | HCN | PCl3 | C2H6 |
| C2H4 | CH2Cl2 | C2H2 | SO2 |
| SO4-2 | NO3- | OF2 | CH3OH |
| CO3-2 | N2 | SO3 | NH4+ |
| C3H6 | SCl2 | CH2O | AsF3 |

Draw Lewis Structures for the following ionic compounds.

|  |  |  |  |
| --- | --- | --- | --- |
| MgF2 | CaO | AlBr3 | Na2S |
| Lithium iodide | Copper (II) bromide | Sodium phosphide | Zinc sulfide |