Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lewis Dot Structures**

**Instructions for drawing Lewis structures:**

1) Put the first element in the middle (unless the first element is hydrogen)

2) Put the other elements around the first element (symmetrical if possible)

3) Give each element the correct number of bonds and valence electrons

|  |  |  |
| --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Molecular Geometry** |
| **AsI3** |  |  |
| **CS2** |  |  |
| **SiF4** |  |  |
| **H2O** |  |  |
| **CO2** |  |  |
| **H2O** |  |  |
| **HCl** |  |  |
| **CCl4** |  |  |

Molecular geometry: Check your VSEPR chart to identify the molecular geometry of each compound

|  |  |  |
| --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Molecular Geometry** |
| **NO2** |  |  |
| **C2H6** |  |  |
| **C2H4** |  |  |
| **C2H2** |  |  |
| **NH3** |  |  |

**Let’s kick it up a notch! Try a few of these challenge structures.**

|  |  |  |
| --- | --- | --- |
| **CH3OH****(methanol)** |  |  |
| **CH3CH2OH****(ethanol – aka alcohol)** |  |  |
| **BF3** |  |  |
| **CH2O** |  |  |