**Electron-Domain and Molecular Geometry Lab Activity**

**Honors Chemistry**

**For each of the following molecules/ions:**

1. Draw the Lewis Structure (1 point)
2. Determine the total number of domains (1 point)
3. Determine the number of bonded domains (1 point)
4. Determine the number of nonbonded domains (1 point)
5. Determine the electron-domain geometry (1 point)
6. Determine the molecular geometry (1 point)
7. Give the bond angle(s) (1 point)
8. Determine if it is polar or nonpolar (1 point)
9. Examine the molecule on PHET

**Molecules:**

1. H2O
2. CO2
3. SO2
4. XeF2
5. BF3
6. ClF3
7. NH3
8. CH4
9. SF4
10. XeF4
11. BrF5
12. PCl5
13. SF6