|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Molecule** | **Lewis Structure (and any resonance structures)** | **Electron-Pair Geometry (around central atom)** | **Molecular Shape (around central atom)** | **Bond Angles (around central atom)** | **Polarity of the Molecule (polar or nonpolar?)** |
| 1 | H2O | \*Draw all Lewis structures by hand on a separate sheet of paper and attach at the end of the file. |  |  |  |  |
| 2 | PBr3 |  |  |  |  |  |
| 3 | CO2 |  |  |  |  |  |
| 4 | HCN |  |  |  |  |  |
| 5 | CO32- |  |  |  |  |  |
| 6 | CCl2H2 |  |  |  |  |  |
| 7 | CH3F |  |  |  |  |  |
| 8 | NO3- |  |  |  |  |  |
|  | **Molecule** | **Lewis Structure (and any resonance structures)** | **Electron-Pair Geometry (around central atom)** | **Molecular Shape (around central atom)** | **Bond Angles (around central atom)** | **Polarity of the Molecule (polar or nonpolar?)** |
| 9 | H2CO |  |  |  |  |  |
| 10 | SO42- |  |  |  |  |  |
| 11 | N2O |  |  |  |  |  |
| 12 | C2H6 |  |  |  |  |  |
| 13 | C2H4 |  |  |  |  |  |
| 14 | C2H2 |  |  |  |  |  |
| 15 | NH3 |  |  |  |  |  |
| 16 | OCl2 |  |  |  |  |  |

**Additional questions:**

1. Include answers to the additional questions here.

2.

3.

4.

5.

6.