

Molecular Geometry Worksheet

For each of the following compounds, please do the following on a SEPARATE SHEET OF PAPER! Remember your rules and use the worksheet to your advantage!

- i) Write the Lewis structure for each compound.
- ii) Determine the number of bonding pairs on the central atom.
- iii) Determine the number of nonbonding pairs on the central atom.
- iv) Determine the shape of the molecule.

- 1) CH_4
- 2) PH_3
- 3) SiO_2
- 4) H_2O
- 5) SO_3