

PRELAB QUESTIONS (RESPOND ON A SEPARATE SHEET OF PAPER):

Read the sections of the CHM 115 textbook on Lewis Structures and Molecular Geometries (Shapes). Then respond to the following questions.

1. What is a covalent bond? What is an unshared pair (nonbonding pair or lone pair)?
2. Make a list of rules for writing Lewis Structures.
3. What does VSEPR stand for? What is VSEPR used to do? What is the principle behind the VSEPR theory?
4. Draw the correct Lewis structures and molecular geometries for H_2O , NH_3 , BrF_3 and PCl_2F_3 . Name each molecular geometry.

Be sure to get the report from the course website and complete all sections carefully following all of the directions.