

Name: _____
Period: ____

Lab: Lewis Structures and VSEPR Diagrams

Purpose: to practice drawing Lewis Structures and assigning VSEPR shapes to molecules.

Procedure:

- (1) Draw the Lewis Structure for each molecule.
- (2) Determine the VSEPR shape for each molecule.
- (3) Using the materials provided, create a VSEPR model for each of the molecules

Observations:

Molecule	Lewis Structure	# of atoms bonded to central atom	# of lone pairs on central atom	VSEPR Diagram
CCl_4				
BH_3				
NI_3				
SH_6				
SeCl_2				
PI_5				
SiS_2				

Questions: (complete on the paper provided)

- (1) Draw a three dimensional representation of the model for each molecule. Colour the diagram and create a legend.
- (2) Classify the shape of each molecule

Conclusion:

What does VSEPR stand for? What does it show about a molecule?