

Name: _____

Block: _____

VSEPR Problems #1

For each of the following molecules, draw the Lewis structure. Then build a model of the molecule, and use your model to determine the shape of the electron clouds, and the shape of the molecule.

Cpd.	Lewis Structure	# Electron Clouds	Molecule Shape
CHF ₃	$ \begin{array}{c} \text{H} \\ \\ \text{F}-\text{C}-\text{F} \\ \\ \text{F} \end{array} $	4	<i>tetrahedral</i>
NI ₃			
H ₂ S			
CO ₂			

Cpd.	Lewis Structure	# Electron Clouds	Molecule Shape
AsH ₃			
CS ₂			
COCl ₂			
CH ₃ Br			
PCl ₃			