

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 Cloud Shape	Molecule Shape
CHF ₃	$\begin{array}{c} \text{H} \\ \\ \text{F}-\text{C}-\text{F} \\ \\ \text{F} \end{array}$	<i>tetrahedral</i>	<i>tetrahedral</i>
NI ₃			
H ₂ S			
CO ₂			

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