

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

**Chemistry**  
**Molecular Structures Worksheet**  
64 Points – Counts as a Lab

Molecule	Lewis Structure	Number of Bonding Pairs around central atom (Count multiple bonds as ONE bond)	Number of Lone Pairs around central atom	3D Sketch	Name of shape in terms of atoms <u>and</u> state if the molecule is polar or non-polar
SiH <sub>4</sub>					
BeF <sub>2</sub> (Electron Deficient Be)					
H <sub>2</sub> S					
PCl <sub>4</sub> <sup>+</sup>					

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H <sub>2</sub>		N/A – no central atom as such	N/A – no central atom as such		
SO <sub>3</sub> <sup>2-</sup>					
SbF <sub>5</sub>					
SCl <sub>6</sub>					

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Molecule	Lewis Structure	Number of Bonding Pairs around central atom (Count multiple bonds as ONE pair)	Number of Lone Pairs around central atom	3D Sketch	Name of shape in terms of atoms <u>and</u> state if the molecule is polar or non-polar
PH <sub>3</sub>					
PBr <sub>5</sub>					
PF <sub>3</sub>					