



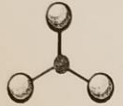
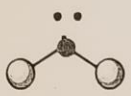







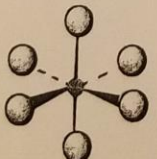




Table 1. Molecular Geometries (Shapes) Predicted by VSEPR

Total Electron Domains	No Lone Pairs	One Lone Pair	Two Lone Pairs	Three Lone Pairs
<p><i>HED</i> 2 <i>SP</i></p> <p>Geometry:</p> <p>Angles:</p>	 <p>Linear:</p> <p>180°:</p>			
<p><i>HED</i> 3 <i>SP<sup>2</sup></i></p> <p>Geometry:</p> <p>Angles:</p>	 <p>Trigonal Planar</p> <p>120°:</p>	 <p>Bent</p> <p>~120°:</p>		
<p><i>HED</i> 4 <i>SP<sup>3</sup></i></p> <p>Geometry:</p> <p>Angles:</p>	 <p>Tetrahedral</p> <p>109.5°</p>	 <p>Trigonal-pyramid</p> <p>~109.5°</p>	 <p>bent</p> <p>~109.5°</p>	
<p><i>HED</i> 5 <i>SP<sup>3</sup>d</i></p> <p>Geometry:</p> <p>Angles:</p>	 <p>Trigonal Bipyramidal</p> <p>90°, 120°</p>	 <p>See-saw</p> <p>90°, 120°</p>	 <p>T-shaped</p> <p>90°</p>	 <p>Linear</p> <p>180°</p>
<p><i>HED</i> 6 <i>SP<sup>3</sup>d<sup>2</sup></i></p> <p>Geometry:</p> <p>Angles:</p>	 <p>Octahedral</p> <p>90°</p>	 <p>Square-pyramid</p> <p>90°</p>	 <p>Square-planar</p> <p>90°</p>	