

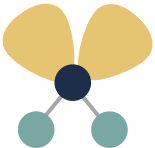

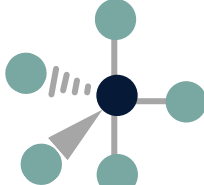

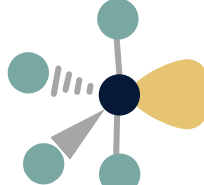

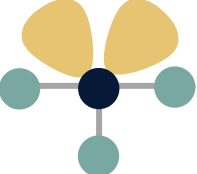

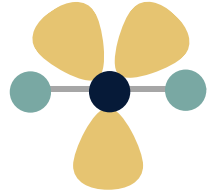

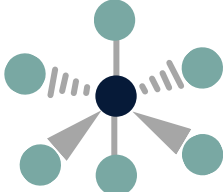





VSEPR Geometries



Electron Groups	Bonding Groups	Lone Pairs	Electron Geometry	Molecular Geometry	Approximated Bond Angles	Example
2	2	0	Linear	Linear	180°	 
3	3	0	Trigonal Planar	Trigonal Planar	120°	 
3	2	1	Trigonal Planar	Bent	<120°	 
4	4	0	Tetrahedral	Tetrahedral	109.5°	 

Electron Groups	Bonding Groups	Lone Pairs	Electron Geometry	Molecular Geometry	Approximated Bond Angles		Example
4	3	1	Tetrahedral	Trigonal pyramidal	$<109.5^\circ$		
4	2	2	Tetrahedral	Bent	$<<109.5^\circ$		
5	5	0	Trigonal bipyramidal	Trigonal bipyramidal	120° (equatorial) 90° (axial)		
5	4	1	Trigonal bipyramidal	Seesaw	$<120^\circ$ (equatorial) $<90^\circ$ (axial)		
5	3	2	Trigonal bipyramidal	T-shape	$<90^\circ$		

Electron Groups	Bonding Groups	Lone Pairs	Electron Geometry	Molecular Geometry	Approximated Bond Angles	Example
5	2	3	Trigonal bipyramidal	Linear	180°	 
6	6	0	Octahedral	Octahedral	90°	 
6	5	1	Octahedral	Square pyramidal	<90°	 
6	4	2	Octahedral	Square planar	90°	