
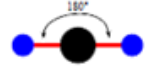


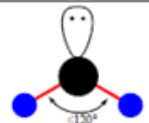


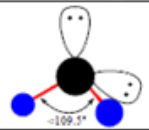
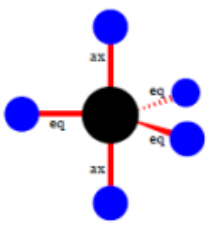
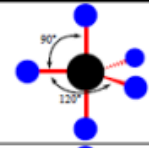
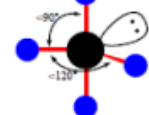
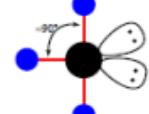
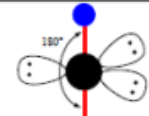
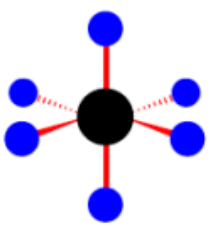
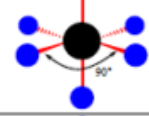



Using VSEPR to Predict the Shapes of Molecules

Electron Groups on central atom ¹	Electron-Group Shape	Bonds ²	Lone Pairs	Molecular Shape	Bond angles	Appearance
2	 Linear	2	0	linear	180°	
3	 Trigonal Planar	3	0	trigonal planar	120°	
		2	1	bent	<120° ⁵	
4	 Tetrahedral	4	0	tetrahedral	109.5°	
		3	1	trigonal pyramidal	107	
		2	2	bent	104.5	

Electron Groups on central atom ¹	Electron-Group Shape	Bonds ²	Lone Pairs		Molecular Shape	Bond angles			Appearance
5	 <p>eq = equatorial ax = axial</p> <p>Trigonal Bipyramidal</p>	5	0		trigonal bipyramidal	120° eq 90° ax			
		4	1		seesaw	<120° eq <90° ax	Not important		
		3	2		T-shaped	<90°	Not important		
		2	3		linear	180°	Not important		
6	 <p>Octahedral</p>	6	0		octahedral	90°			
		5	1		square pyramidal	<90°	Not important		
		4	2		square planar	90°			