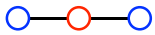
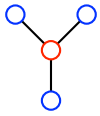
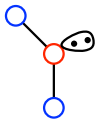
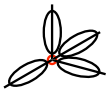
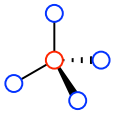
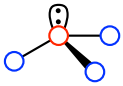
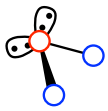
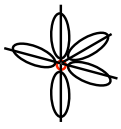
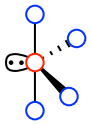
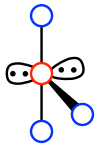
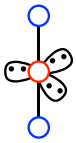
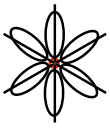
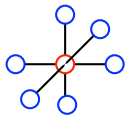
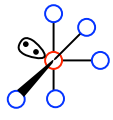
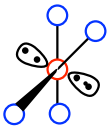
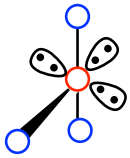
VSEPR

- **V**alence **S**hell **E**lectron **P**air **R**epulsion
  - Used to predict the three-dimensional shapes of molecules based on the repulsion between electron pairs in the valence shell of an atom
- Molecular geometry: describes the spatial arrangement of only the bonding pairs of electrons
- Electron geometry: describes the spatial arrangement of all pairs of electrons around the central atom, both the bonding and lone pairs

		Molecular Geometry			
# of Electron Dense Groups	**Electron Geometry**	**No Lone Pairs**	**1 Lone Pair**	**2 Lone Pairs**	**3 Lone Pairs**
2 	Linear	 Linear 180º			
3 	Trigonal Planar	 Trigonal Planar 120º	 Bent 119º		
4 	Tetrahedral	 Tetrahedral 109.5º	 Trigonal Pyramidal 107.3º	 Bent 104.5º	
5 	Trigonal Bipyramidal	 Trigonal Bipyramidal	 Sawhorse	 T-shaped	
6 	Octahedral	 Octahedral	 Square Pyramidal	 Square Planar	 T-shaped