17: Molecular Geometry - VSEPR

Key Structure Terms

- Valence Shellt Electrons in the outermost shell that are involved in bonding.
- Lewis Structure: A 2D representation of a molecule and it's boards.
- . Lone Pair: Pair of electrons not being shared in a bond.
- . Bonding Pairs Pair of electrons used to make a bond. Both atoms sharing the electrons can "count" them in their WINDOWS CO. NOW BUT WAS A STREET,
- · Single bond: One pair of shared electrons.
- . Double bond: Two pairs of shared electrons. Shorter and stronger than a single bond.
- . Triple bond: Three pairs of shared electrons. Shorter and stronger than a double bond.
- Valence Shell Electron Pair Repulsion Theory (VSEPR): Bonds and lone pairs are electrons, all electrons are negative, negative things repel other negative things, therefore all bonds and lone pairs arrange themselves in 3D as far away from each other as possible.
- · Electron Geometry: 3D structure of a molecule determined by counting the electron regions around a central atom (bonds and lone pairs).
- · Electron Region: Each bond (single, double or triple) and lone pair count as "1" electron region.
- . Molecular Geometry: 3D structure determined by the atoms bonded to the central atom.
- . Linand: Atoms bonded to the central atom.

VSEPR Theory and Geometry

Bectron geometry is determined by looking at the number of electron regions around the central atom.

Molecular geometry is determined by looking at the number of atoms bonded to the central atom (ligand) and the number of lone pairs around the central atom.

Bectronic Geometry Mnemonic: Linear(2) - Trigonal Planar(3) - Tetrahedral (4) - Irigonal Bipyramidal(5) -Octahedron(6) = "Long InP To InBe Overseas."

Examples:

Electron geometry: Tetrahedron Molecular geometry: Tetrahedron

Electron geometry: Tetrahedron Molecular geometry: Trigonal pyramidal

Molecular Geometries

Electron Regions	Molecular Formula	Name	Shape
2	AX;	Limear	
	(BeCl ₂ , CD ₂)		
3	(BF ₃ , CO ₃), NO ₃ , SO ₃)	Trigonal Planar	
	AX aE	Bent	
	(NO ₂ °, SO ₂ , O ₂)		-
4	(CH., NH.*, PO.*, SO.*,	Tetrahedron	
	(NH _b , H ₂ O*, PCl _b , SO ₂ *)	Trigonal pyramidal	1
	AX ₂ E ₂	Dent	
	(H ₂ O, ClO ₂), OF ₂ , ScO ₂)		
5	AX ₃ (PCI ₅)	Trigonal bipyvamidal	
	(SF., SCL)	See-saw	
	AX, E, (CIF ₂ , ICI ₃)	T-shaped	-
	AX ₃ E ₃ (XeF ₃ , I ₃)	Linear	
6	AX ₄ (SF ₆ , PCl ₆)	Octahedron	
	AX JE (BrFs, IFs)	Square pyramidal	
	AX.E2 (XeF.)	Square planer	- 2

How to Use This Cheat Sheet: These are the keys related to this topic. Try to read through it carefully twice then write it out on a blank sheet of paper. Review it again before the exams.

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Christian G. Meyer

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