



Chem!stry

Name: ()

Class:

Date: / /

Valence Shell Electron Pair Repulsion Theory

CN	number of lone electron pairs							
	0	e.g.	1	e.g.	2	e.g.	3	e.g.
2	linear	CO ₂						
3	trigonal planar	BCl ₃ SO ₃	angled	SO ₂ NO ₂ ⁻ O ₃	linear	CO		
4	tetrahedral	CH ₄ SO ₄ ²⁻	trigonal pyramidal	NH ₃	angled	H ₂ O	linear	HCl
5	trigonal bipyramidal	PCl ₅	bisphenoidal (seesaw)	SF ₄	T-shaped	ClF ₃	linear	I ₃ ⁻
6	octahedral	SF ₆	square pyramidal	ClF ₅	square planar	ICl ₄ ⁻		
7	pentagonal bipyramidal	IF ₇						