

VSEPR

valence shell electron pair repulsion theory

valence electron pairs surrounding an atom repel each other, and will adopt an arrangement that minimizes this repulsion

Comparison of Shapes

Shape	Number of Atoms Attached to Central Atom	Number of Unshared Pairs on Central Atom	Bond Angle
Linear	1 or 2	0	180°
Bent	2	1 or 2	~120° or ~109.5°
Trigonal Planar	3	0	120°
Trigonal Pyramidal	3	1	~109.5°
Tetrahedral	4	0	109.5°