

VSEPR Molecular Shape Table

Total # e ⁻ pairs On central atom	# atoms bonded to central atom	# lone pairs on central atom	Name of shape	example
2	2	0	Linear	BeF ₂
3	3	0	Trigonal planar	BF ₃
3	2	1	Angular	SnCl ₂
4	4	0	Tetrahedral	CCl ₄
4	3	1	Pyramidal	NH ₃
4	3	0	Trigonal planar	SO ₃
4	2	2	Angular	H ₂ O
4	2	1	Angular	SO ₂
4	2	0	Linear	CO ₂
5	5	0	Trigonal bipyramidal	PCl ₅
5	4	1	Seesaw	SF ₄
5	3	2	T-shaped	ClF ₃
5	2	3	Linear	XeF ₂
6	6	0	Octahedral	SF ₆
6	5	1	Square- based Pyramid	IF ₅
6	4	2	Square planar	XeF ₄
7	7	0	Pentagonal bipyramidal	IF ₇