
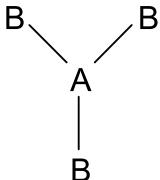
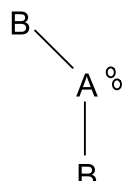
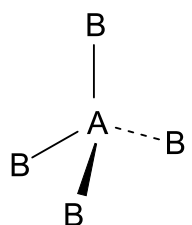
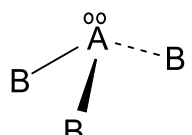
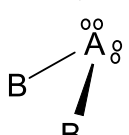
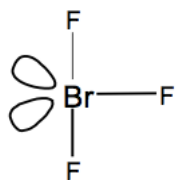
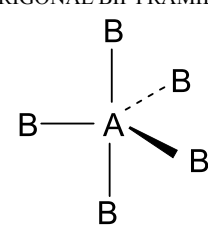


Shapes of molecules

Name	Bonding pairs	Lone Pairs	Bond angle in°	Drawing	E.G.
Linear	2	0	180	LINEAR 	CO ₂ , CS ₂ , CHN, BeF ₂ , BeCl ₂
trigonal planar	3	0	120	TRIGONAL PLANAR 	BF ₃ , AlCl ₃ , SO ₃ , NO ₃ ⁻ , BCl ₃
Bent	2	1	116	BENT 	SO ₂ , NO ₂ ⁻
tetrahedral	4	0	109.5	TETRAHEDRAL 	SiCl ₄ , SO ₄ ²⁻ , SiO ₄ , NH ₄ ⁺ , CH ₄
trigonal pyramidal	3	1	107	TRIGONAL PYRAMIDAL 	NCI ₃ , PF ₃ , ClO ₃ , NH ₃ , PCl ₃
bent line	2	2	104.5	BENT 	H ₂ O, OCl ₂ , H ₂ S, OF ₂
T-shape	3	2	85		BrF ₃ , ClF ₃
trigonal bipyramidal	5	0	120 and 90	TRIGONAL BIPYRAMIDAL 	PF ₅ , PCl ₅

Shapes of molecules

Name	Bonding pairs	Lone Pairs	Bond angle in°	Drawing	E.G.
octahedral	6	0	90	<p>OCTAHEDRAL</p>	SF_6
Square planar	4	2	90	<p>SQUARE PLANAR</p>	BrF_4 , XeF_4