

Molecular Type	Shape	Electron Arrangement	Geometry	Examples
AX_2E_0	Linear			$BeCl_2$ CO_2
AX_2E_1	Bent			SO_2 NO_2^-
AX_2E_2	Bent			H_2O
AX_2E_3	Linear			XeF_2
AX_3E_0	Trigonal planar			SO_3
AX_3E_1	Trigonal pyramidal			NH_3 PCl_3
AX_3E_2	T-shaped			BrF_3
AX_4E_0	Tetrahedral			CH_4
AX_4E_1	Seesaw (disphenoidal)			SF_4
AX_4E_2	Square planar			XeF_4
AX_5E_0	Trigonal bipyramidal			PCl_5
AX_5E_1	Square pyramidal			BrF_5
AX_5E_2	Pentagonal planar			XeF_5^-
AX_6E_0	Octahedral			SF_6
AX_6E_1	Pentagonal pyramidal			$XeOF_5^-$
AX_7E_0	Pentagonal bipyramidal			IF_7

Table (including artwork) adapted from the Wikipedia article on VSEPR theory: https://en.wikipedia.org/?title=VSEPR_theory

Key to Symbols

A (Pink) Central atom X (White) Bonded atom E (Yellow) Lone pair