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| # electron groups | Geometric arrangement of electron groups | VSEPR Notation | Molecular Shape |
|  | linear | AX2 | Linear |
|  | trigonal planar | AX3 | trigonal planar |
| AX2E | bent |
|  | tetrahedral | AX4 | tetrahedral |
| AX3E | trigonal pyramidal |
| AX2E2 | bent |
|  | trigonal bipyramidal | AX5 | trigonal bipyramidal |
| AX4E | seesaw |
| AX3E2 | t-shaped |
| AX2E3 | linear |
|  | octahedral | AX6 | octahedral |
| AX5E | square pyramidal |
| AX4E2 | square planar |