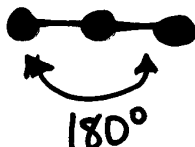


Molecular Shapes and Names

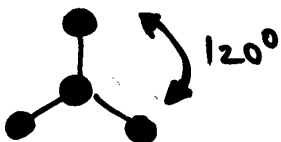
The names refer to where the atoms are located, not where the electrons are located!



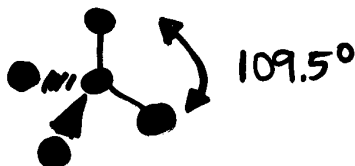
← **Linear**



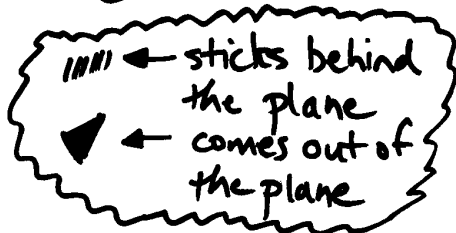
← **Linear**
(2 atoms around central atom)



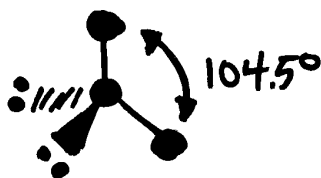
← **Trigonal Planar**
(3 atoms around central atom)



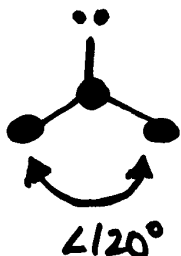
← **Tetrahedral** (pyramid has 4 faces)
(4 atoms around central atom)



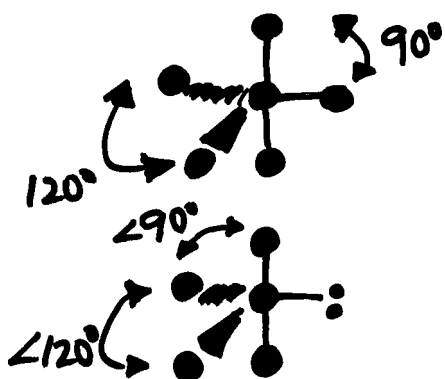
← **Trigonal Pyramidal**
(3 atoms & 1 pair of electrons around central atom)
*e⁻ can go anywhere



← **Bent**
(2 atoms & 2 pairs of electrons around central atom)
*e⁻ can go anywhere



← **Bent**
(2 atoms & 1 pair of electrons around central atom)
*e⁻ can go anywhere



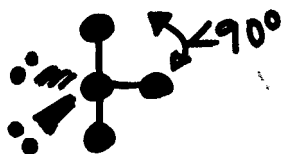
← **Trigonal Bipyramidal**

(5 atoms around central atom)

← **Seesaw, Irregular Tetrahedron, or Bi-sphenoid**

(4 atoms & 1 pair of electrons around central atom)

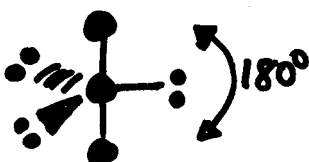
e⁻ must be around the middle, not top/bottom



← **T- shaped (officially: T- shaped planar)**

(3 atoms & 2 pairs of electrons around central atom)

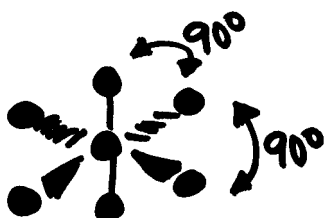
e⁻ must be around the middle, not top/bottom



← **Linear**

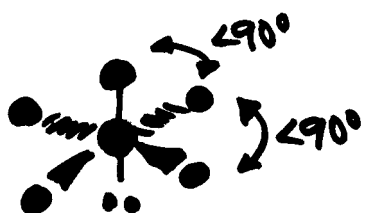
(2 atoms & 3 pairs of electrons around central atom)

e⁻ must be around the middle, not top/bottom



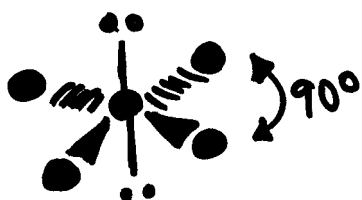
← **Octahedral** (pyramids have 8 faces)

(6 atoms around central atom)



← **Square Pyramidal**

(5 atoms & 1 pair of electrons around central atom)



← **Square Planar**

(4 atoms & 2 pairs of electrons around central atom)

e⁻ must be opposite each other