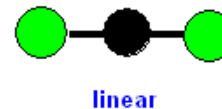


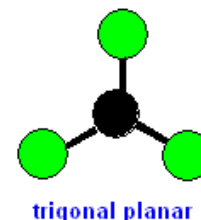
# Summary:

There are 5 ELECTRON Geometries:

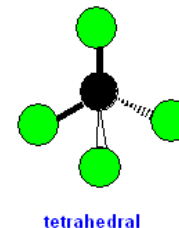
LINEAR : 2 e<sup>-</sup> groups around central atom



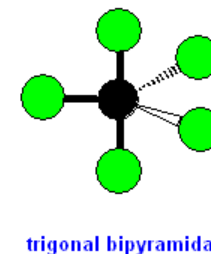
TRIGONAL PLANAR : 3 e<sup>-</sup> groups around central atom



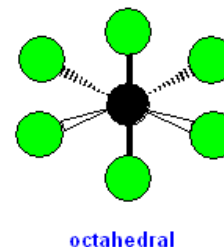
TETRAHEDRAL : 4 e<sup>-</sup> groups around central atom



TRIGONAL BIPYRAMIDAL : 5 e<sup>-</sup> groups around central atom



OCTAHEDRAL : 6 e<sup>-</sup> groups around central atom



These electron geometries are also the MOLECULAR geometries  
For molecules where all e<sup>-</sup> groups are bonding groups.

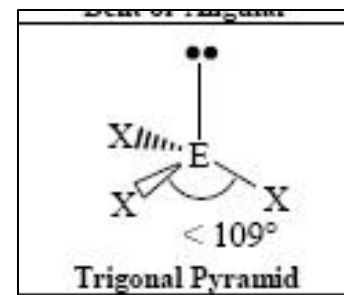
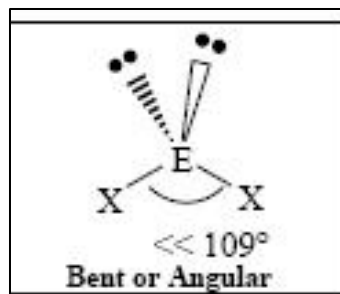
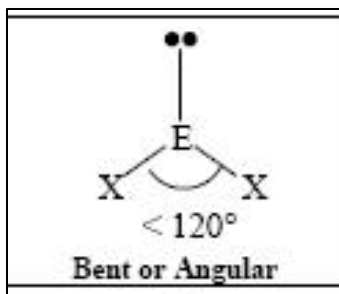
## Summary:

There are 6 additional MOLECULAR Geometries.

These occur when one or more of the  $e^-$  groups are lone-pair  $e^-$

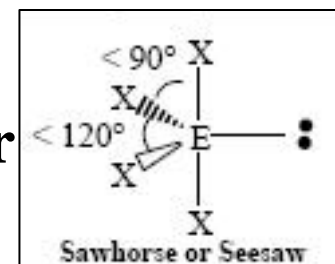
Bent : 3  $e^-$  groups around central atom- 1 is a lone-pair

4  $e^-$  groups around central atom- 2 are a lone pair

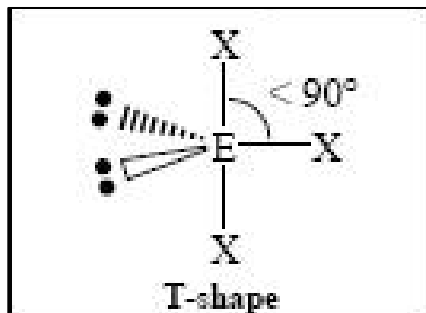


Trigonal Pyramidal : 4  $e^-$  groups around central atom- 1 is a lone-pair

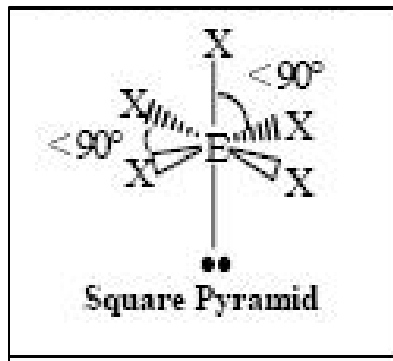
Seesaw: 5  $e^-$  groups around central atom- 1 is a lone-pair



**T-Shaped:** 5  $e^-$  groups around central atom- 2 are a lone-pair



**Square Pyramidal:** 6  $e^-$  groups around central atom- 1 is a lone-pair



**Square Planar:** 6  $e^-$  groups around central atom- 2 are a lone-pair

