

Determining Molecular Shapes (L3 Chemistry)

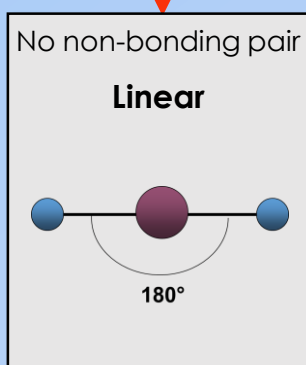
Number of electron regions of negative charge around central atom

These regions of negative charge repel each other as far away from each other as possible around the central atom

2 regions

Linear Base arrangement

180°

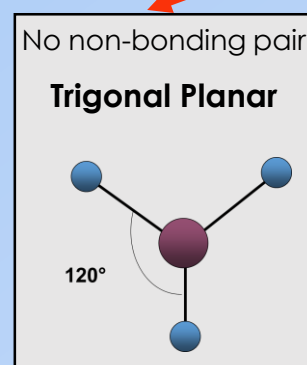


180°

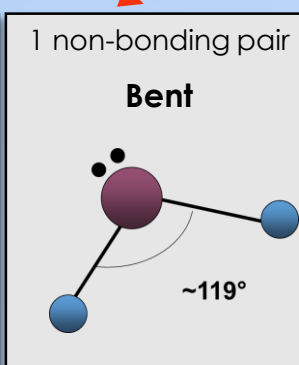
3 regions

Trigonal Planar Base arrangement

120°



120°

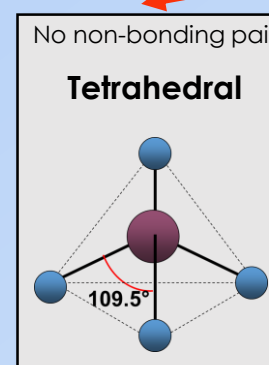


119°

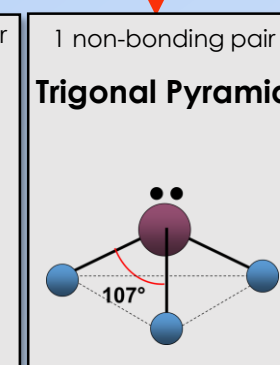
4 regions

Tetrahedral Base arrangement

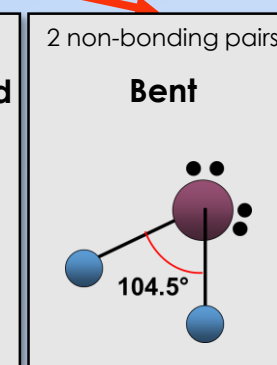
109.5°



109.5°



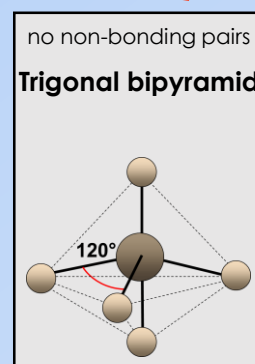
107°



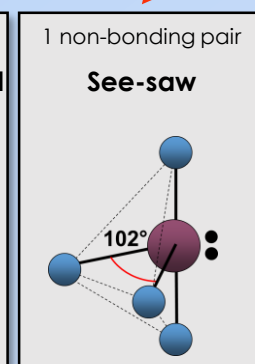
105°

5 regions

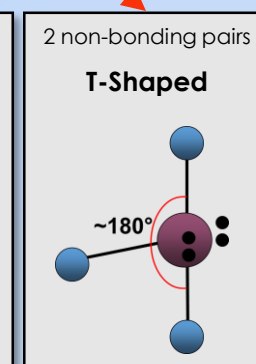
Trigonal Bipyramid Base arrangement



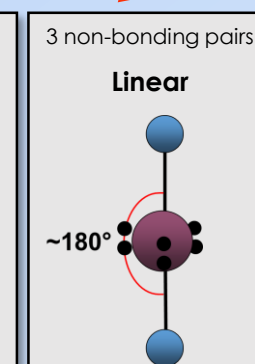
120° 90°



102° 86.5°



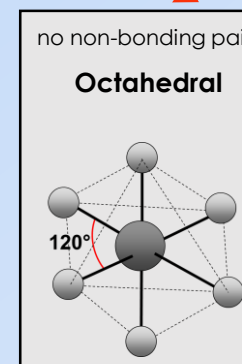
185° 87.5°



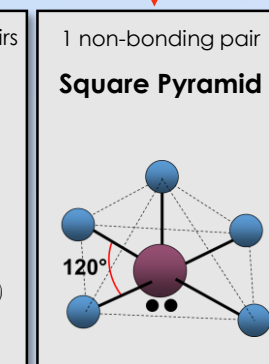
180°

6 regions

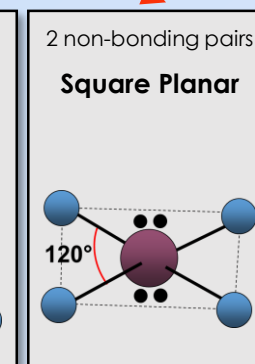
Octahedral Base arrangement



90° 90°



90° 84.8°



90°