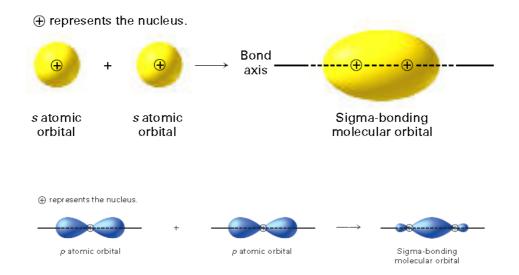
## Molecular Orbitals-p. 230

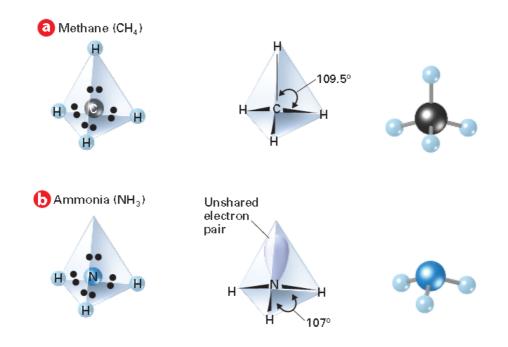
- covalent bonding results from an in-balance between the attractions and repulsions of the nuclei and the electrons.
- since nuclei are similarly charged, they will repel each other, likewise for electrons.
- however, the positively charged nuclei and negatively charged electrons will attract each other.
- when the attractive forces are stronger than the repulsive forces, the atoms are held together in a molecular bond.

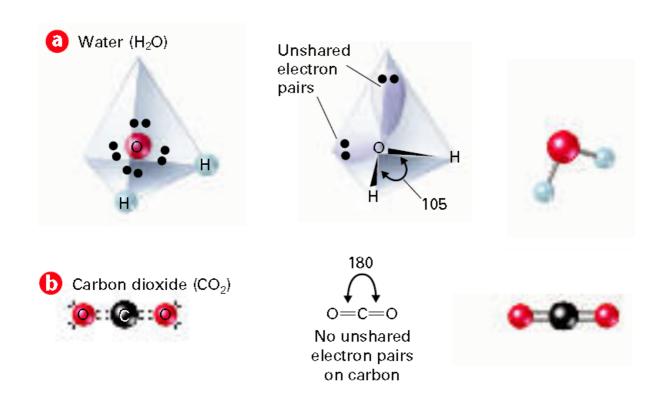


## VSEPR Theory-p. 232

VSEPR-Valence Shell Electron Pair Repulsion

The repulsion between electron pairs causes molecular shapes to adjust so that the valence electron pairs are as far apart as possible.





## Possible Molecular Shapes

