

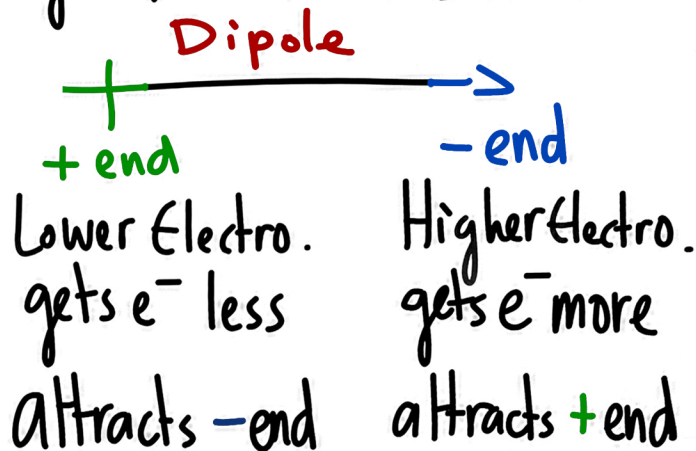
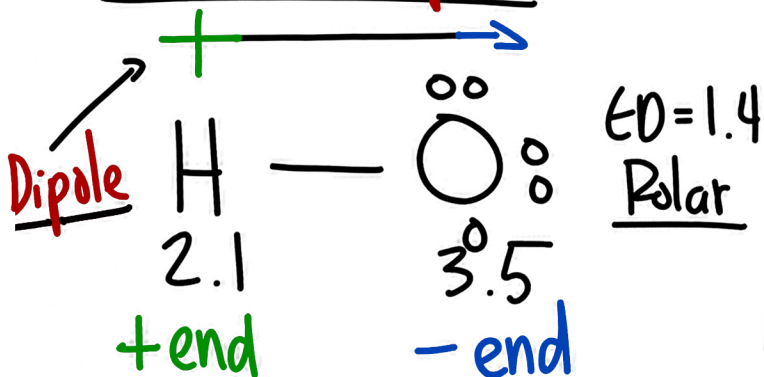
In Class Noteset 3C (Part 3)

Bond Dipoles

Bond Dipoles

Dipole is an uneven sharing of electrons in bond

Polar = Dipole

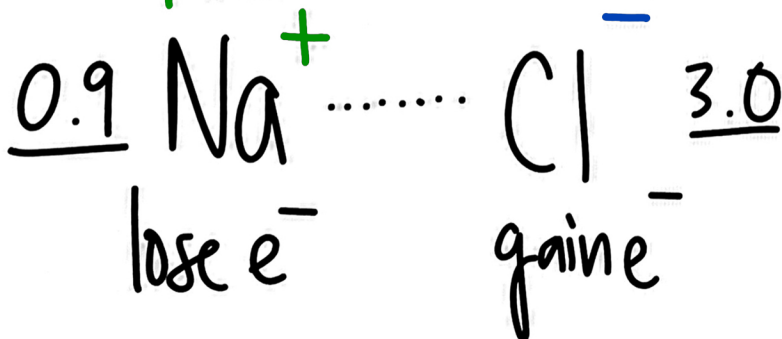


Ionic vs. Polar Covalent

Ionic: Transfer of e^-

Metal / High ED

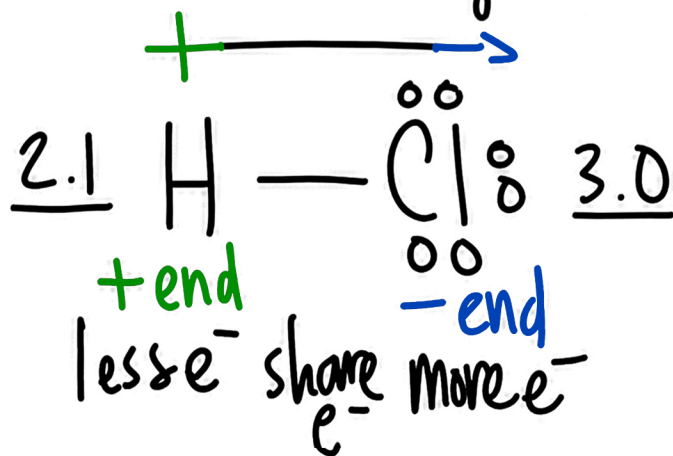
+ end - end



Polar Covalent

Unequal sharing of e^-

No Metals / High ED



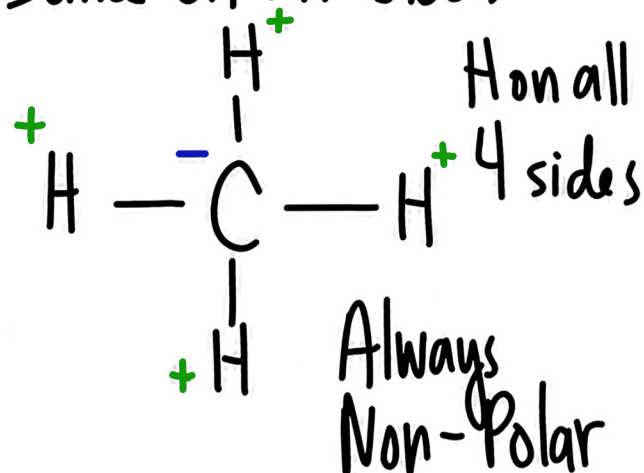
In Class Noteset 3C (Part 3)

Symmetry and Molecule Types

Symmetry in Molecules

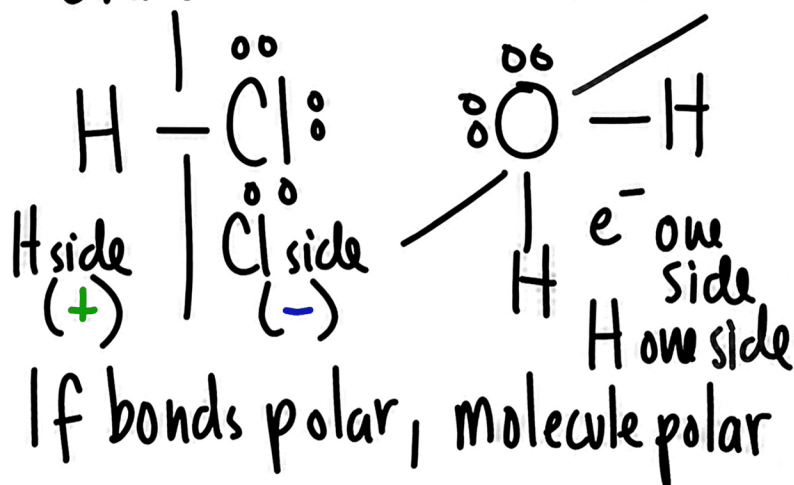
Symmetrical molecule

Same on all sides



Asymmetric Molecule

One or more sides different

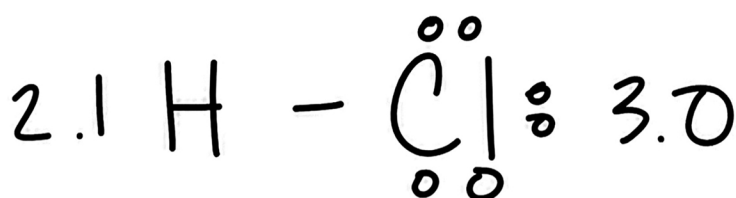


Molecule Polarity

- ① Find bond ϵD
- ② Non Polar = Non Polar Bond Molecule
- ③ For Polar Bond

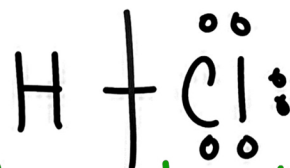
symmetrical molecule : Non Polar Molecule

asymmetrical molecule : Polar Molecule



$$\epsilon D = 3.0 - 2.1 = 0.9$$

Bond is Polar Covalent Bond



Asymmetrical
Polar Molecule

Noteset 3C (Part 3) - In Class Presentation

Molecule Polarity Examples

