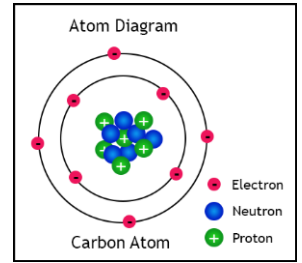
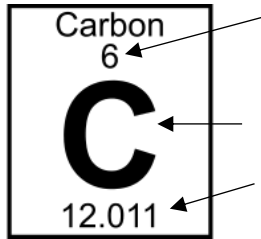


Topic 2: Atoms, Bonding & Polarity

Video #1

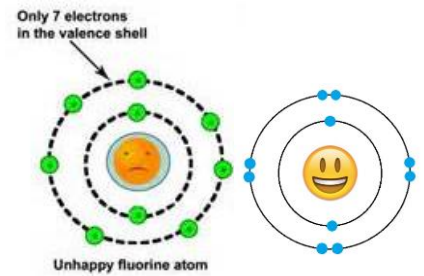
Subatomic Particles:



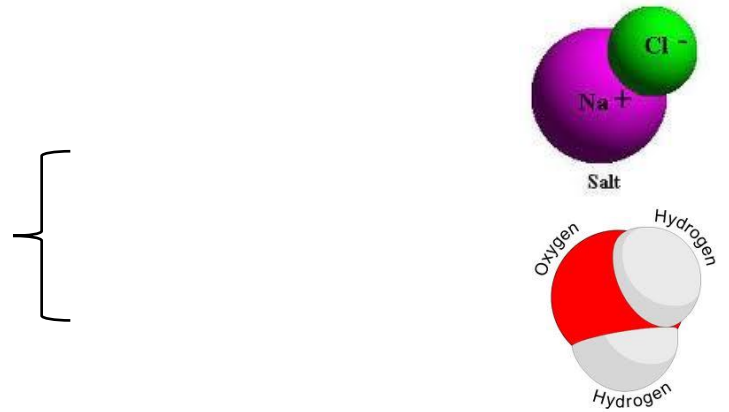
Isotopes:

Nonradioactive carbon-12	Nonradioactive carbon-13	Radioactive carbon-14
6 electrons 6 protons 6 neutrons	6 electrons 6 protons 7 neutrons	6 electrons 6 protons 8 neutrons
98.9 %	1.1 %	<0.0001 %

Why Are Electrons Important?



Chemical Bonds (Intramolecular):



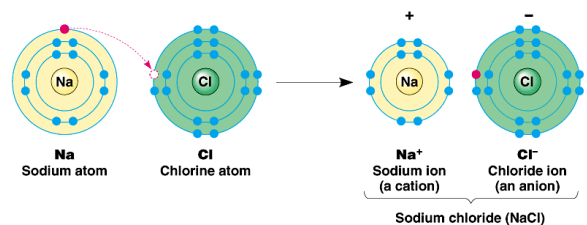
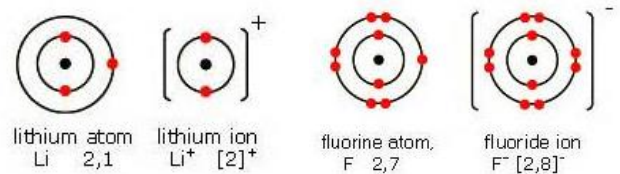
IONIC

Cations –

Anions –

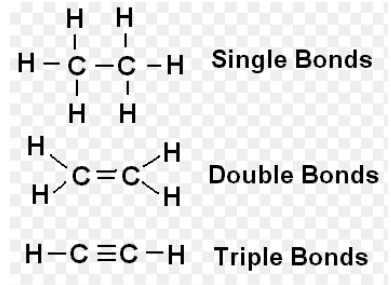
Ionic Bonds –

Octet Rule -

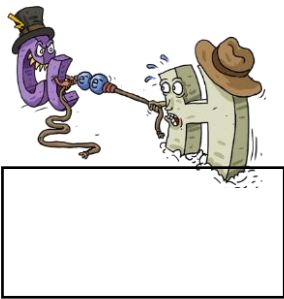
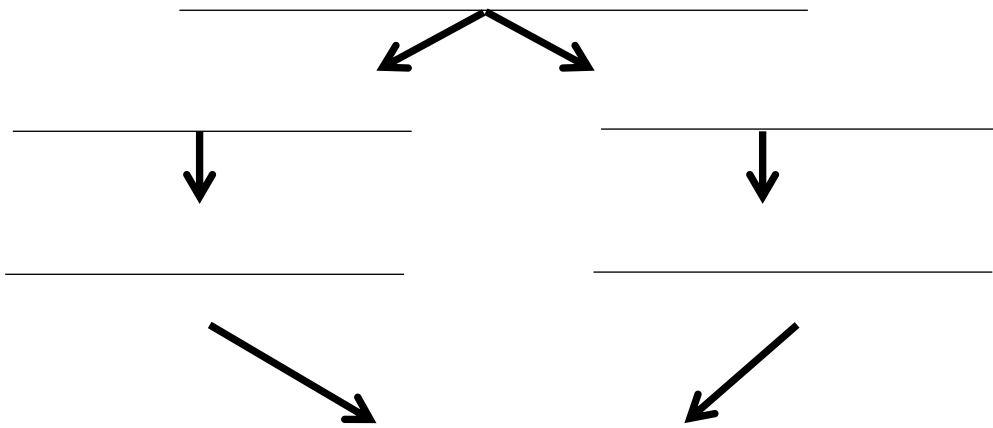


COVALENT

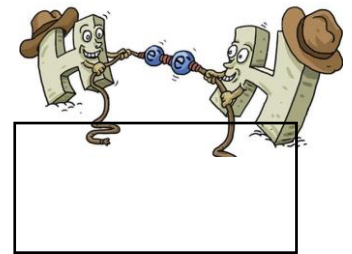
Covalent Bonding –



Polarity –

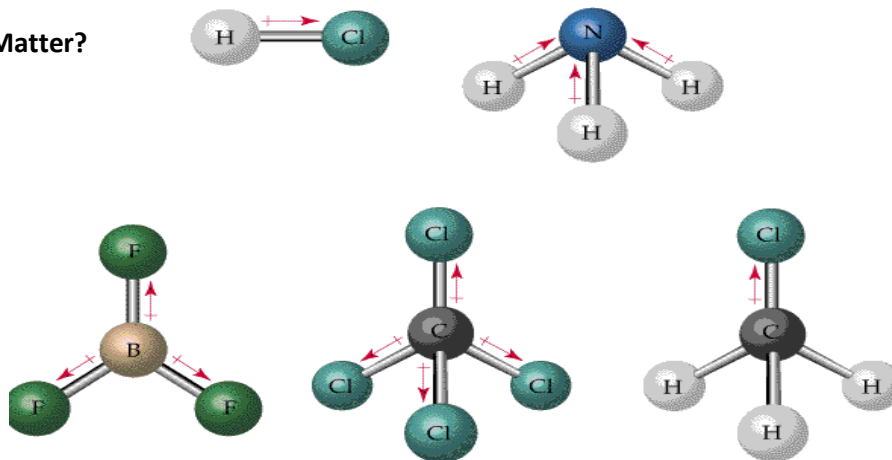


Difference in Electronegativity of Elements



Electronegativity –

Does Shape Really Matter?



Dipoles -

