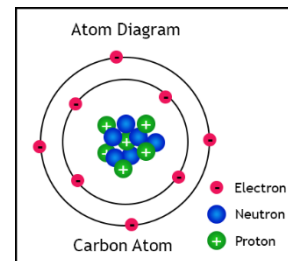
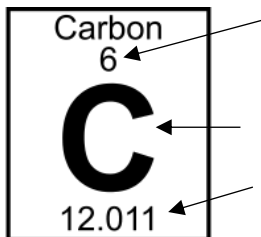


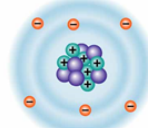
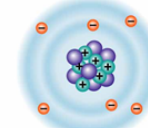
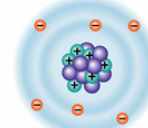
Topic 1: Atoms, Bonding & Polarity

Video #1

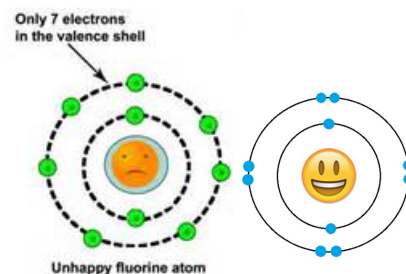
Subatomic Particles:



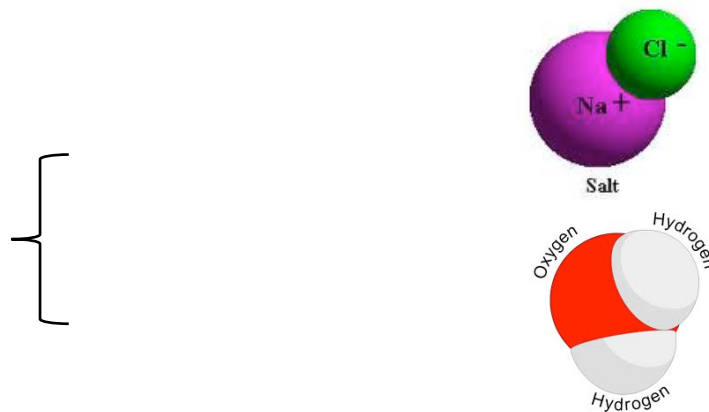
Isotopes:

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):



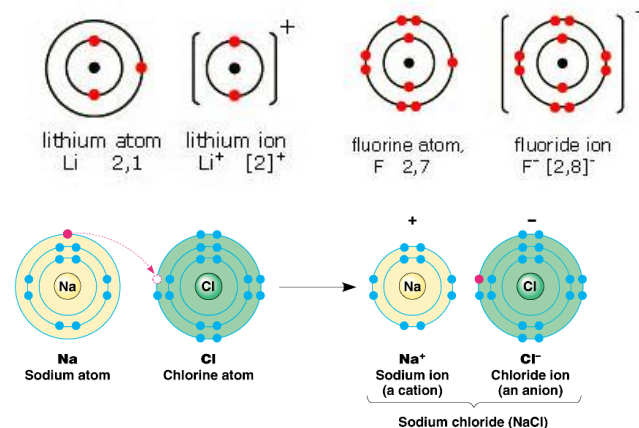
IONIC

Cations –

Anions –

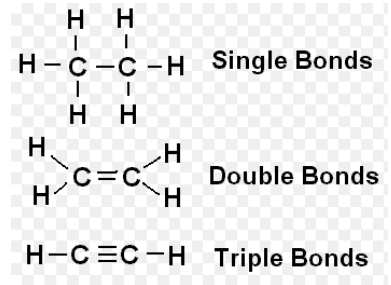
Ionic Bonds –

Octet Rule -

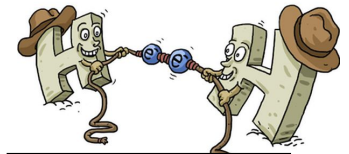
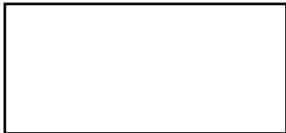
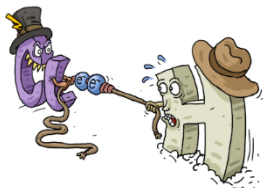
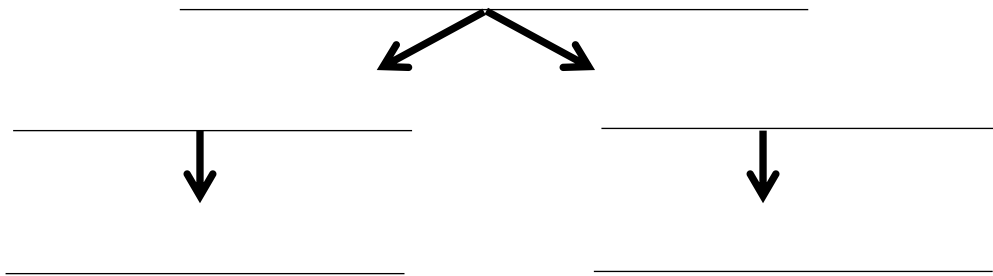


**COVALENT**

**Covalent Bonding –**



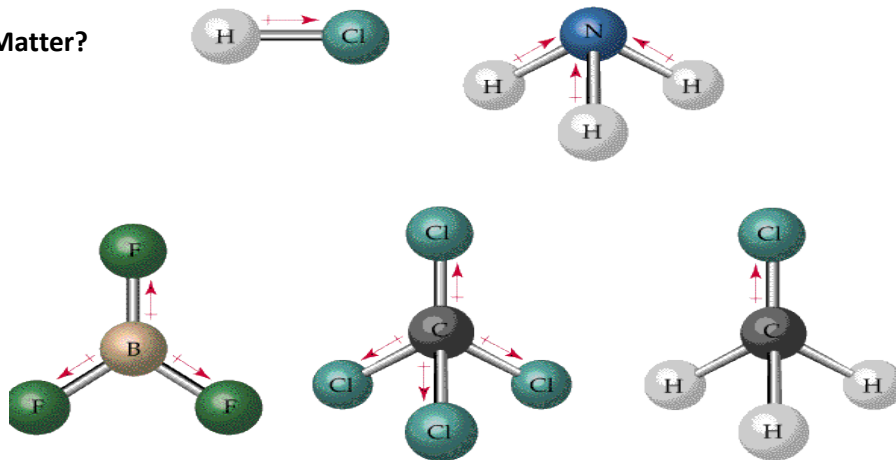
**Polarity –**



Difference in Electronegativity of Elements

**Electronegativity –**

**Does Shape Really Matter?**



**Dipoles -**

