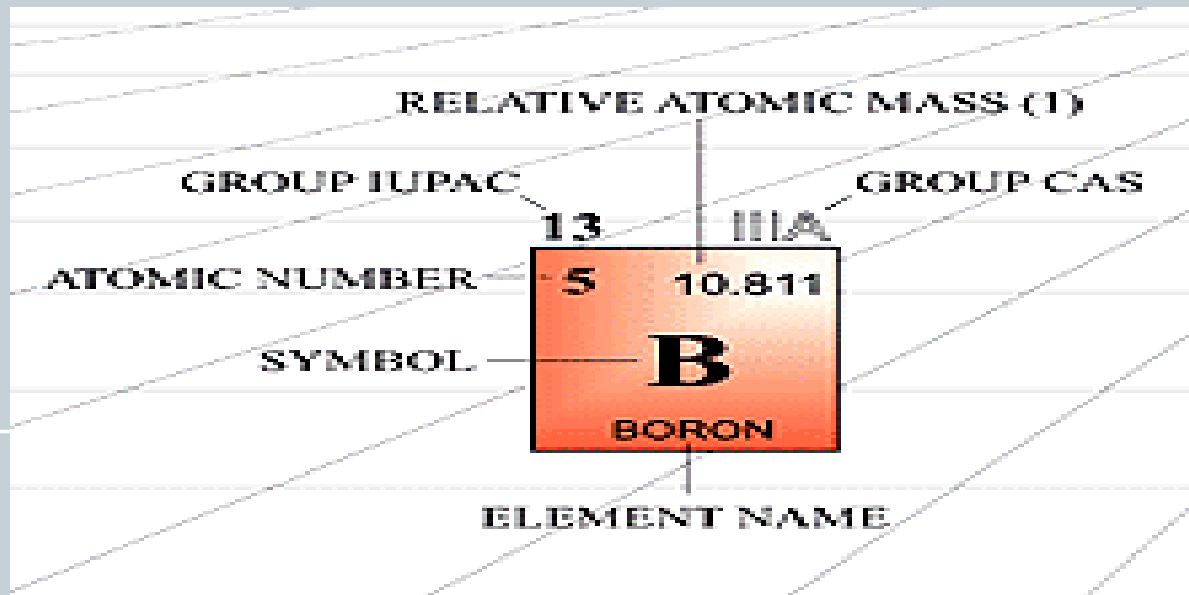


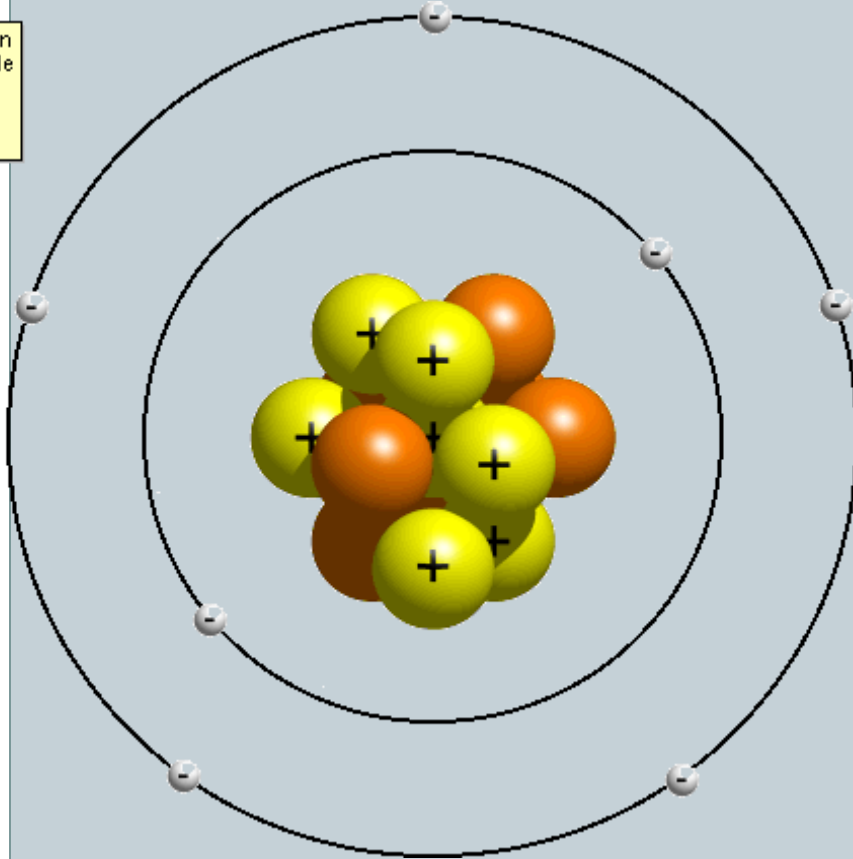
# Atomic Mass



- The sum of the Protons and Neutrons in the nucleus.
- Also called Atomic Weight
- $\text{Protons} + \underline{\text{Neutrons}} = \text{Atomic Weight}$



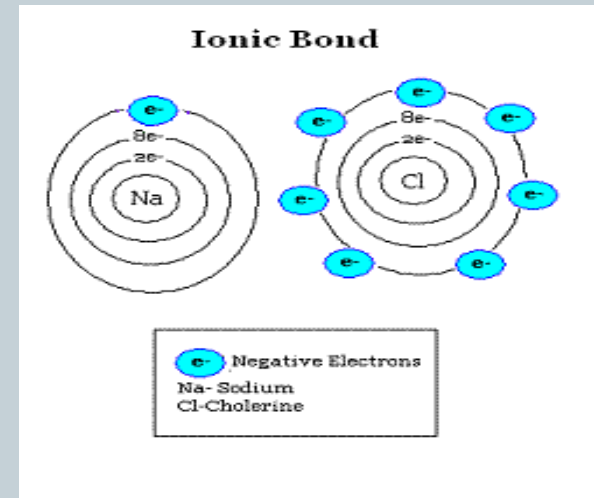
# Electrons



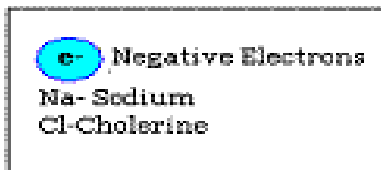
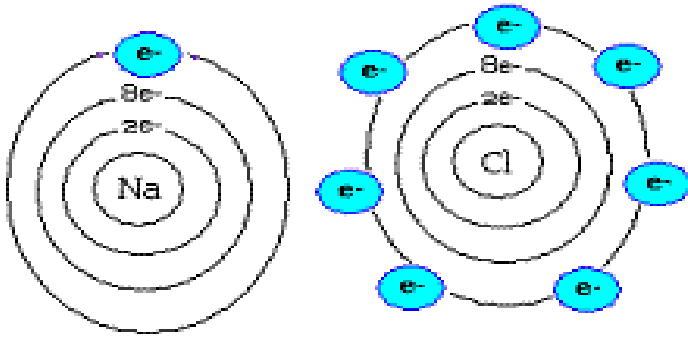
- Located outside the nucleus of the atom
- Housed in Electrical Clouds, Shells, Orbits
- Has a negative charge
- Does not have an amu because of tiny size
- Moves around the nucleus in an orbit

# Electron Arrangement ctd.

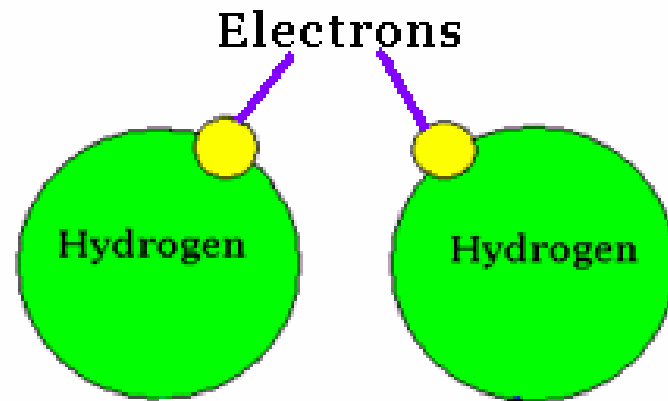
- The electrons in the outermost shell (if it is not completely full) are available for bonding
- These electrons are called Valence Electrons
- Bonding is the chemical combining of 2 or more atoms.



## Ionic Bond



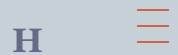
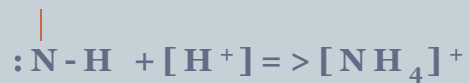
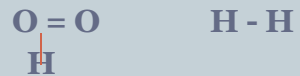
Ionic – Gain or Lose Electrons



Covalent–Share Electrons

# Covalent Bonding

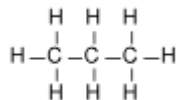
## COVALENT BONDING



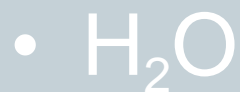
## AMONIA



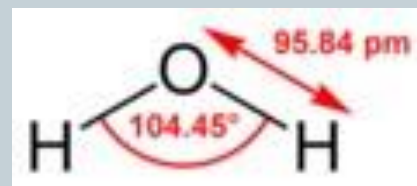
## ACITYLINE



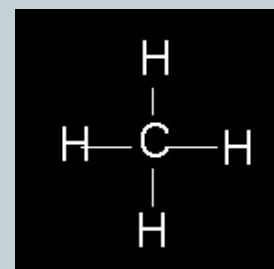
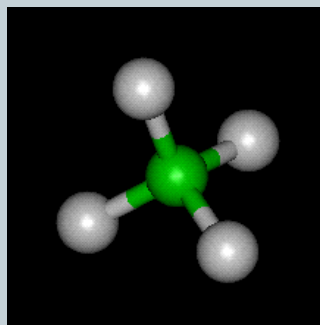
# Common Covalent Bonds



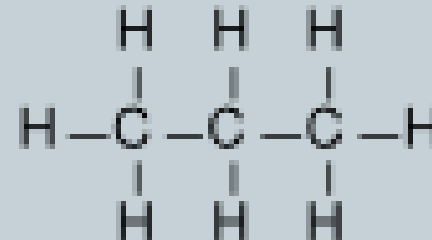
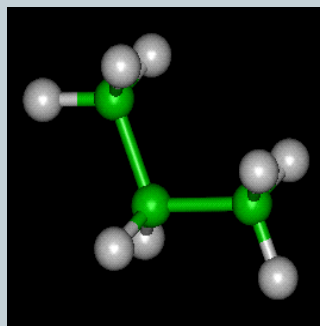
Water



Methane



Propane



## Ionic Equilibrium

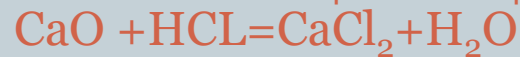
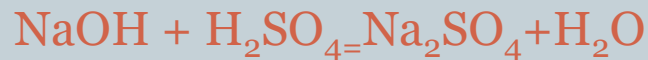
Sulphuric acid- $\text{H}_2\text{SO}_4$

$\text{H}_2\text{CO}_3$



$\text{Ca}(\text{OH})_2, \text{Mg}(\text{OH})_2, \text{Na}_2\text{CO}_3, \text{CaO}, \text{NaOH}$

## Base



## Alkali

