Chapter 3 - Molecules, compounds, and chemical equations

Chemical bonding is the true difference between compounds and mixtures



**lonic bond**: attraction of oppositely charged ions

(Metal cation and nonmetal anion)

Na 
$$\frac{105e}{1e^{-3}}$$
 Na<sup>+</sup>  $re^{-3}$   
Cl +  $1e^{-32in}$  Cl<sup>-</sup>

Na Cl: transfer Nat Cl:

Covalent bond: shared pair of electrons (Between 2 <u>nonmetal</u> atoms <u>only</u>)



Sodium chloride (table salt)