

Noteset 4B (Part 3) - In Class Noteset

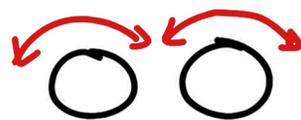
Energy of Ionic Bonding and Covalent Bonding

Collisions and atomic motion

Elastic Collision

When particles collide they transfer energy to each other. Each particle collides then moves away.

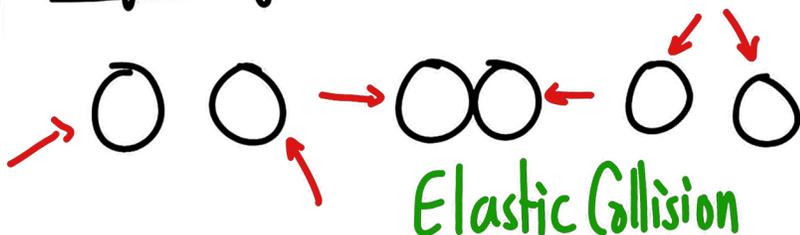
Solid



vibrations
Elastic Collisions

Liquid/gas

Collision, bounce



Elastic Collision

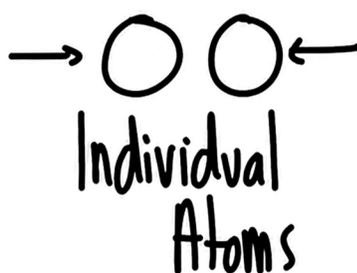
Collisions and atomic motion

Inelastic Collision

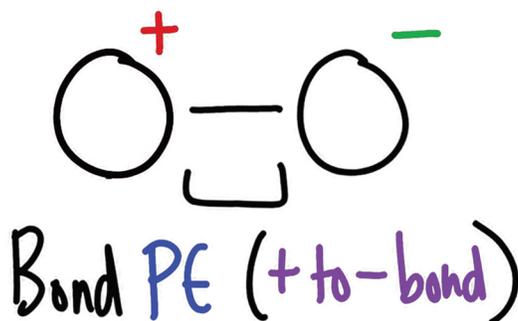
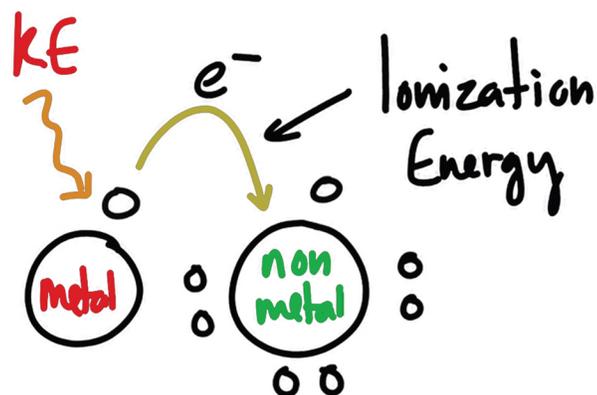
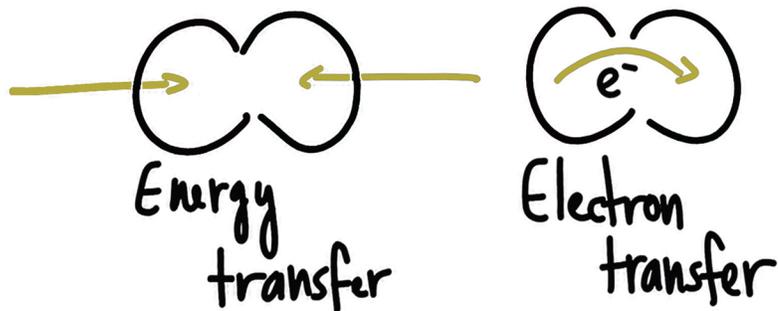
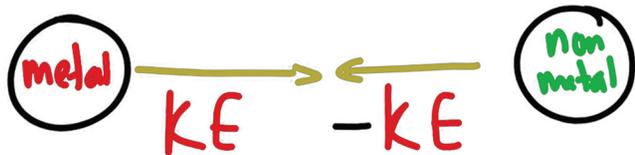
When particles collide they transfer energy to each other. When bonding occurs they stick together and connect

A chemical bond is a electron connection between two or more atoms.

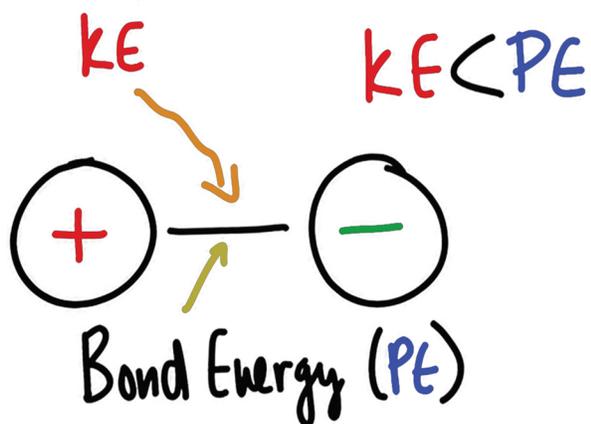
Inelastic Collision



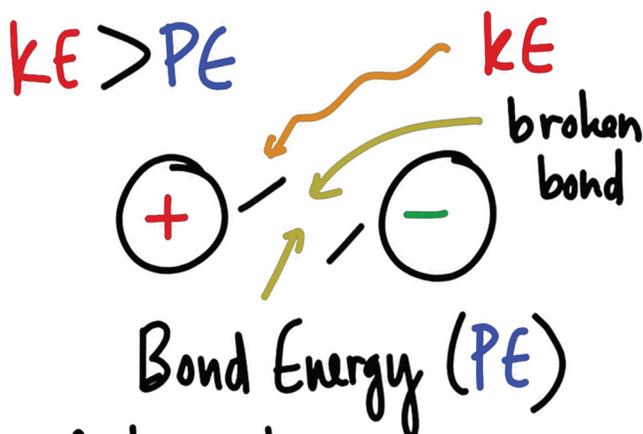
Energy in ionic bonding



Breaking Ionic Bonds



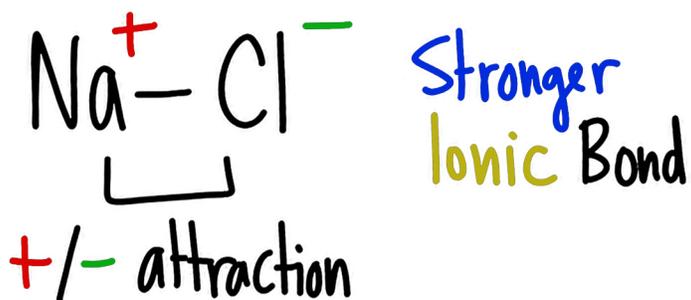
With a large bond energy bond doesn't break



A large bond energy can be broken when
 $KE > PE$ (ionization)

Comparing Ionic and Covalent Bonding

Ionic: Transfers e^-
High PE bonds



Covalent: Share e^-
Lower PE bonds

