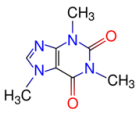



Properties of Ionic, Metallic and Covalent Bonds

Bond

Force of attraction between two objects

Properties of Ionic Cmpds.

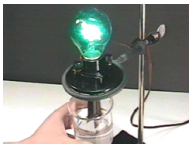
ELECTRONS ARE TRANSFERRED FROM METAL TO NONMETAL

1. Crystalline solids (s) at room temperature


Copper sulfate

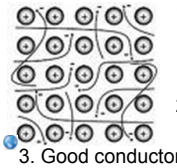
Iron(II) sulfide (pyrite)

2. High melting and boiling points
3. Conduct electricity when dissolved in water (aq) or melted (l)



Metallic Bonding

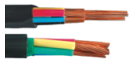
ELECTRONS ARE SHARED IN A COMMON "POOL" OR "SEA" BETWEEN POSITIVE METAL NUCLEI



1. Solids (s) at room temperature

2. High melting and boiling points

3. Good conductors of heat and electricity




4. Malleable and ductile

Covalent Bonding

ELECTRONS ARE SHARED BETWEEN NONMETALS

1. Relatively low melting and boiling points
2. Poor conductors
3. Solids, liquids and gases at room temperature