Elements

Metals

Physical Properties of Metals

- Malleable
- Ductile
- Good conductor of Heat and Electricity
- Sonorous
- Generally solids

Chemical Properties of Metals

- Highly Electropositive
- Metal+Water ⇩ Metal oxide+Hydrogen
- Metal+ Air ⇩ Metal oxides
- Metal+Acid ⇩ Salt +Hydrogen
- Reactive metals displace less reactive metals from their salt

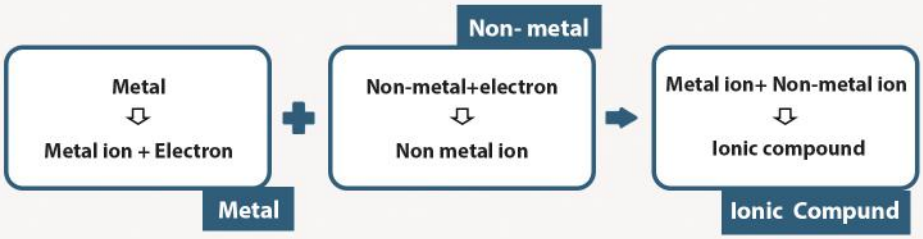
Non-metals

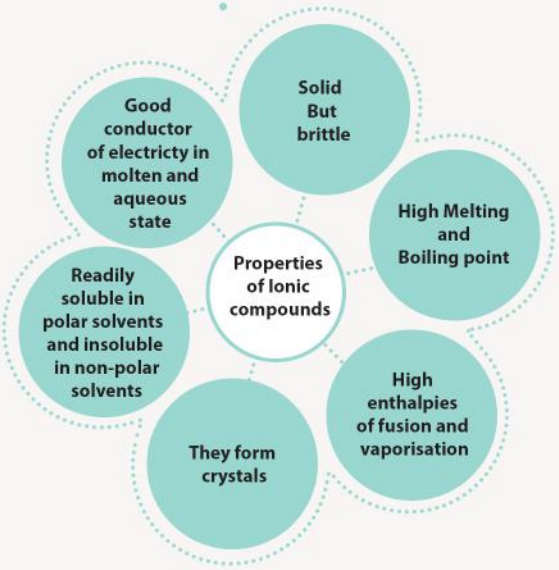
Physical Properties of Non-metals

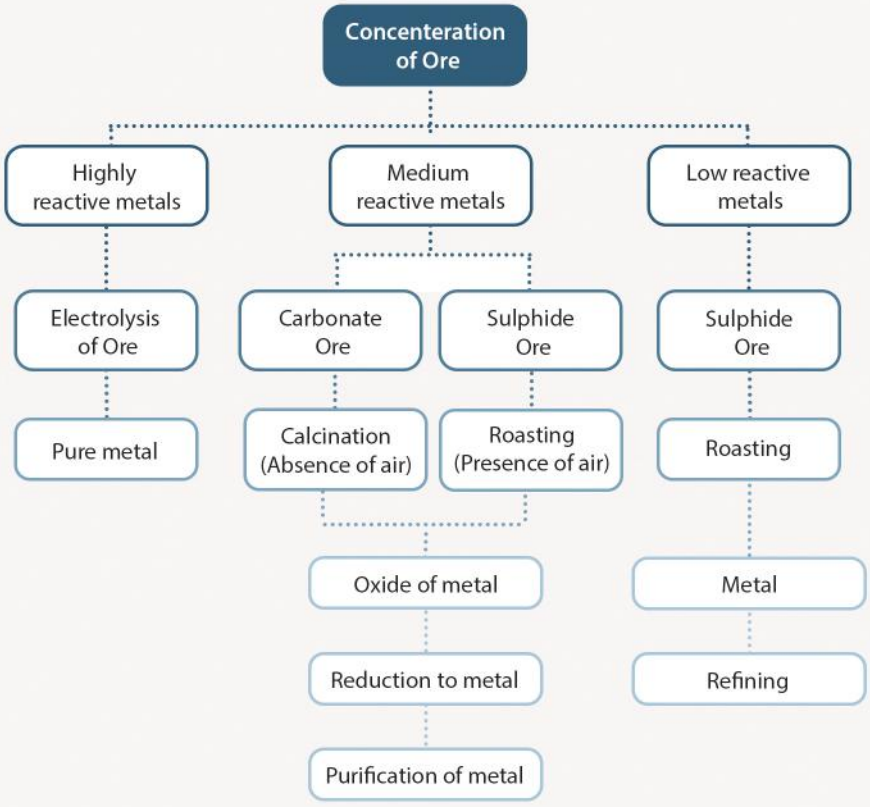
- Non-Malleable
- Non-Ductile
- Poor conductor of Heat and Electricity
- Can be Solids, Liquids or Gases

Chemical Properties of Non-metals

- Generally Electronegative
- Do not react with water
- Form Ionic compounds with metals





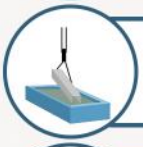


Corrosion

Metals on exposure to water / moisture / Acids tarnish due to formation of oxides on their surface

Prevention Of Corrosion

Alloying
Mixing Iron /steel with less reactive metals



Galvanization
Coating Iron / steel with zinc

Electroplating
Coating Iron by electrolytic deposition with chromium , silver or other metals