Chapter 4: Chemicals and Chemical changes

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Types of changes Physical Change

- Appearance or form changes
- Subst. remains same
- Physical Characteristics:
 - Lustre
 - Texture
 - Hardness
 - Odour
 - Sounds
 - o Temp.
 - Mass
 - Volume
 - Density
 - Color
 - Malleable
 - Ductile
- E.g.:
 - ∘ Ice -> Water @ Meltng
 - ∘ Water -> Ice @ Cooling

Chemical Change

- New subst. forms
- Irreversible
- Chemical Properties:
 - flammable
 - corrosive
 - ∘ pH
 - o explosive
- E.g.:
 - Wood -> carbon @ Burning
 - ∘ Iron -> rusted @ Rusting
 - Burning of matchstick @ Combustion

Metals & Non-metals

Metals Non-metals

Good conductors

Ductile

Bad conductors

Non-ductile

Sonorous Non-sonorous

High tensile strength
High density
Low tensile strength
Low density

High melting Θ boiling Low melting Θ boiling

Combine with oxygen and form basic oxides Combine with oxygen abd form acidic oxides