

Metals Learning Outcomes

By the end of this topic you should be able to state

1. Metals are elements found on the left hand side of the Periodic Table
2. Typical metal properties
 - (i) conduct electricity and heat
 - (ii) high melting point - hence solid at room temperature
 - (iii) ductile - can be drawn into wires
 - (iv) malleable - can be hammered into shape
3. Word equations can be written to show the reaction of metals with oxygen, water, and dilute acids:
 - (i) metal + oxygen $\rightarrow$ metal oxide
 - (ii) metal + water $\rightarrow$ metal hydroxide + hydrogen
 - (iii) metal + dilute acid $\rightarrow$ salt + hydrogen
4. Metals can be arranged in order of reactivity by comparing the rates at which they react
5. Metals can be used to produce soluble salts. Excess metal is added to the appropriate acid, the mixture is filtered and the filtrate evaporated to dryness