

Tools and Equipment



Metals

Ferrous (Meaning with Iron)

Iron
Fe
26
55.845

Ferrous Alloys
(mixture of metals)

Iron + Carbon = Steel

Wrought Iron
= 0.02 carbon



Mild Steel
= 0.1 - 0.3 carbon



High Carbon Steel
= 0.5 - 1.1 carbon



Stainless Steel
= Chromium + Nickel + iron



Galvanised Iron
= Iron with Zinc coating



Non-Ferrous (Meaning without Iron)

Aluminium
Al
13
26.982

Copper
Cu
29
63.546

Tin
Sn
50
118.71

Aluminium

Copper

Tin



Non-Ferrous Alloys (mixture of metals)

Brass = copper + Zinc

Pewter = tin + antimony + copper



Year 7 Knowledge organiser



Pewter Casting

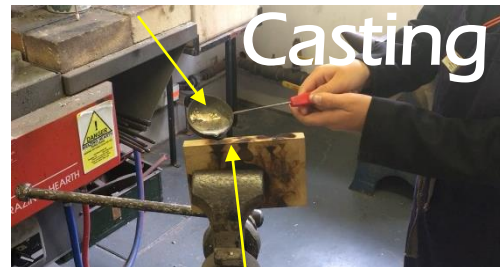


Manufacturing

CAD/CAM

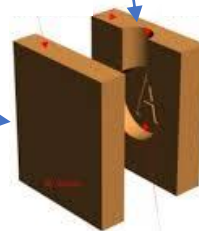
Computer Aided Design

Ladle



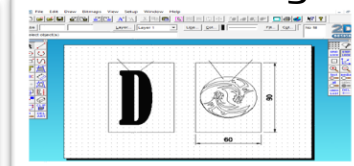
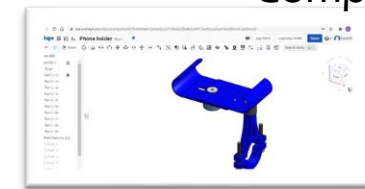
Casting

Sprue



Mould

Pewter melting point
170 - 230°C



Computer Aided Manufacture

