

Tools and Equipment



Scribe

Hacksaw

Centre Punch

Files

Pillar Drill

Vice

Centre Lathe

vernier calliper

Metals

Ferrous (Meaning with Iron)



Ferrous Alloys
(mixture of metals)

Iron + Carbon = Steel

Wrought Iron
= 0.02 carbon



Mild Steel
= 0.1 - 0.3 carbon



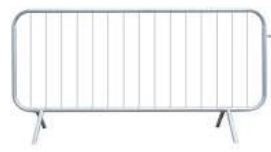
High Carbon Steel
= 0.5 - 1.1 carbon



Stainless Steel
= Chromium + Nickel + iron



Galvanised Iron
= Iron with Zinc coating



Non-Ferrous (Meaning without Iron)



Aluminium

Copper

Tin



Non-Ferrous Alloys (mixture of metals)

Brass = copper + Zinc



Pewter = tin + antimony + copper



Year 8 Knowledge organiser



Metals



Manufacturing – Centre Lathe

Centre Drilling

Facing off



Knurling



Knurling tool



Drill Chuck

SPINDLE

Tailstock

