Types of Metal

There are two classes of metals:

Ferrous - metals that **contain iron** and are affected by magnetism (apart from stainless steel).

Non-ferrous - metals that **do not contain iron** and are not affected by magnetism.

Alloying

Metals are alloyed to improve the qualities of the individual pure metals e.g. both copper and tin as pure metals are both soft metals that are easily bent and scratched. When alloyed together (90% copper plus 10% tin) they produce bronze which is hard, rigid and resists scratching. Bronze is used for our 'copper' coins.

What is the name of the metal you are making your coat hook out of:

Answer:_____

What type of metal is it ?

Ferrous OR Non-ferrous

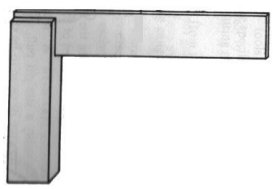
How are alloys made up?

Answer:_____

Name the tool

_____ _____ is used for measuring onto your piece of material in millimetres.

The Engineers _____ _____ is used to mark out metal for cutting and shaping and to test that angles are 90 degrees.



The _____ is used to draw or SCRIBE lines in the metal .

The ____ _____ _____ is a general use hammer, it is used to flatten the backs of the snap head rivets.

_____ _____ is used to hold the metal securely while it is being worked on.

Dip coating

Tools you will use

The F_____houses the plastic granules. Air is pumped up from the bottom to allow the plastic to circulate to attach to the metal.

F_____is used to heat up the metal prior to being worked on or finished.

L_____G _____are used to stop the heat travelling to our hands when dealing with the hot metal.