



Metalwork Merit Badge Workshop Vocabulary & Information Sheet

*Nonferrous alloys used in pre-Iron Age metalworkers include bronze, brass, and pewter.

*Ferrous metals include steel and pig iron (with a carbon content of a few percent) and alloys of iron with other metals.

Malleable - able to be shaped and bent: describes a metal or other substance that can be shaped or bent without breaking.

Metallurgy - the technique or science of working or heating metals so as to give them certain desired shapes...the technique or science of making and compounding alloys.

Native metal - any metal that is found in its metallic form, either pure or as an alloy, in nature.

Work-hardening - also known as strain hardening, is the strengthening of a metal by plastic deformation. This strengthening occurs because of dislocation movements within the crystal structure of the material.

Alloy - a substance composed of two or more metals, or of a metal or metals with a nonmetal.

Anneal - in metallurgy and materials science, is a heat treatment wherein a material is altered, causing changes in its properties such as strength and hardness.