

Design and Technology – Knowledge Organiser - Metals

Ferrous:



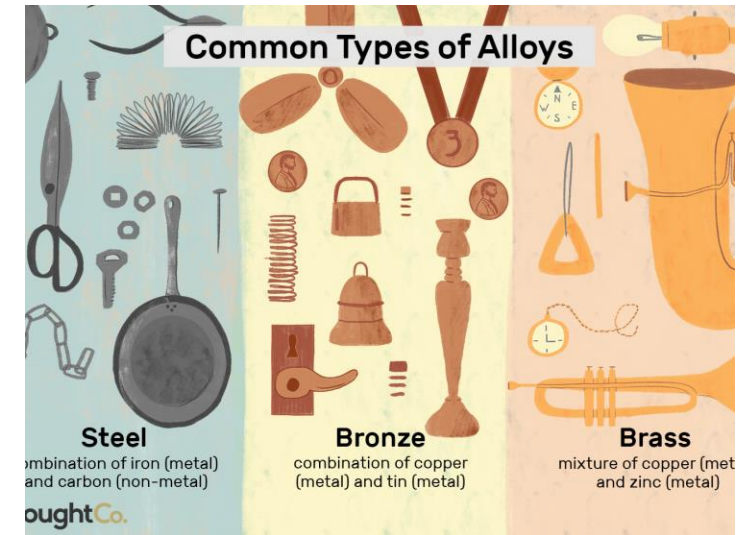
Ferrous metals contain iron and are magnetic. They are prone to rust and therefore require a protective finish, which is sometimes used to improve the aesthetics of the product it is used for as well.

Non-Ferrous:



Non-ferrous metals do not contain iron and are not magnetic. They do not rust.

Alloys:



Steel
combination of iron (metal) and carbon (non-metal)
oughtCo.

Bronze
combination of copper (metal) and tin (metal)

Brass
mixture of copper (metal) and zinc (metal)

	Ferrous Metals	Non-Ferrous Metals
Magnetic	✓	✗
Value	↓	↑
Resistance to Rust / Corrosion	↓	↑
Recyclable	✓	✓

Alloys are mixtures of metal with an element to improve its properties or **aesthetic**. For example, brass is a mixture of copper and zinc.

Alloys can also be classified as ferrous or non-ferrous. Non-ferrous metal may require a protective finish. This finish is sometimes used to improve the aesthetics of the product it is used for.

