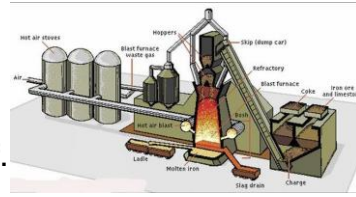


Ferrous and Non Ferrous Metals

Metals are part of the earth's crust in the form of **metal ore**. Metal ore is **mined** and **washed** to remove other minerals and unwanted materials.

It is heated in a furnace and the pure metal ore is run off. This process is known as **smelting**. Iron ore is the basis for most **steels**.



Metals can be broken down into two main categories:

Ferrous Metals

- contain **iron**
- will corrode unless protected
- attracted by a magnet.

Non-ferrous Metals

- don't contain **iron**
- aluminium, copper, tin and lead** are all non-ferrous.

Watch this video

<https://www.youtube.com/watch?v=9l7JqonyoKA>

Complete the table..

Material	Properties	Uses
Mild Steel		
Medium Carbon Steel		
High Carbon Steel		
Cast Iron		

Ferrous and Non Ferrous:
65 mins total time

10 mins: read information and make revision cards.

10 mins: Watch the videos and take notes

5 mins complete the table

Ferrous: contains iron

Ore A naturally occurring solid material

Key Tip: Take notes as you watch the video; this can help you to absorb what you are learning!

KEYWORDS