

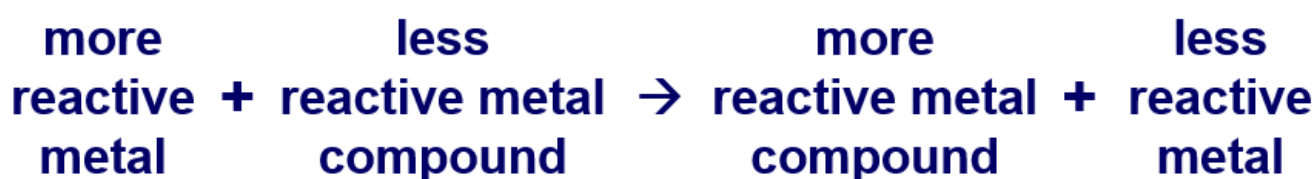
6. Extraction and uses of metals

2.2

Metals are extracted from ores found in Earth's crust and that unreactive metals are often found as uncombined element

2.3

Method of extraction of metal is related to its position in the reactivity series



- combustion with carbon for metals lower reactivity than carbon
- electrolysis for higher metals than carbon

2.4

Comment on metal extraction process, given appropriate information detailed knowledge of the processes used in the extraction of a specific metal is not required

2.5

Uses

High Carbon Steel	Iron + More than 0.5% of Carbon	<ul style="list-style-type: none">- Very Strong- Brittle- Hard to Shape	<ul style="list-style-type: none">- Tools- Knife/Knives- Swords
Low Carbon Steel	Iron + Less than 0.25% of Carbon	<ul style="list-style-type: none">- Strong- Malleable, Easy to work with and shape	<ul style="list-style-type: none">- Car Bodies- Buildings- Bridges
Stainless Steel	Iron, Chromium, Nickel, Carbon	<ul style="list-style-type: none">- Shiny Appearance- Does <u>not</u> corrode	<ul style="list-style-type: none">- Cutlery and pans- Medical Instruments

2.26

- Alloy - mixture of a metal and one or more elements, usually other metals or carbon

2.27

Alloys are harder than pure metals because lattices are distorted