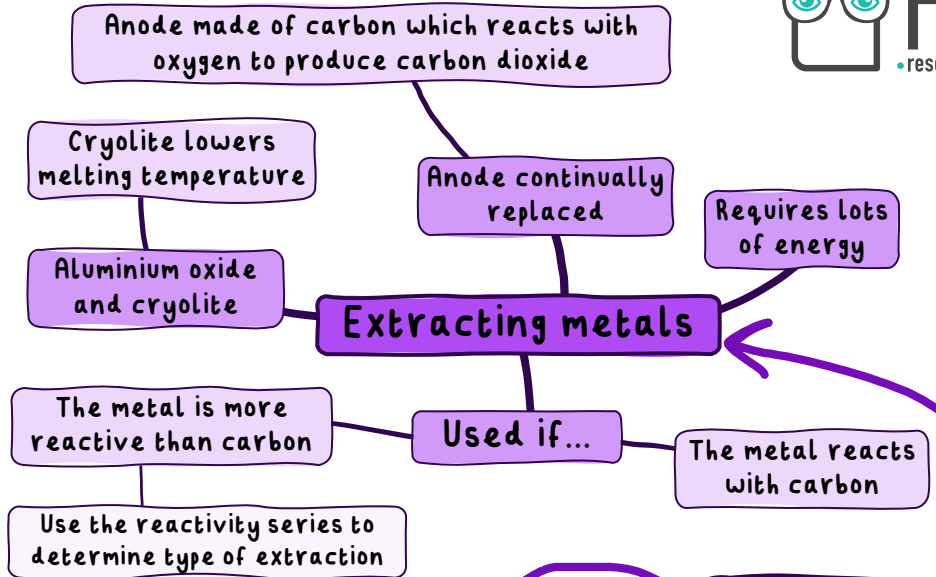


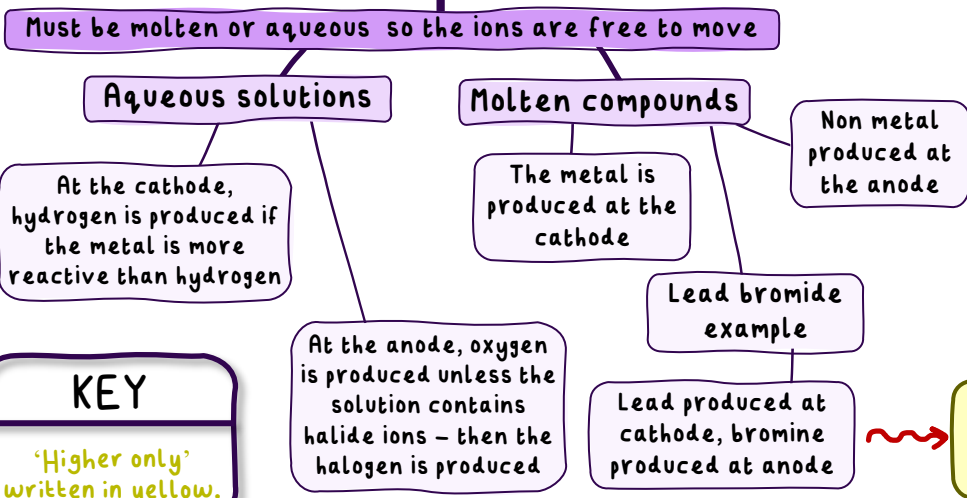


# 4.3 ELECTROLYSIS

## Extracting metals



## Ionic compounds



**KEY**

'Higher only' written in yellow.

Electric current passes through the electrolyte, ions move towards the electrodes where they react

Splitting up with electricity

## Electrolyte

Molten or aqueous ionic compound

## The process

Conducts electricity

Solid placed in the electrolyte

## Electrodes

### Anode

### Cathode

Negative ions move towards the anode

Positive ions move towards the cathode

Positive electrode

Negative electrode

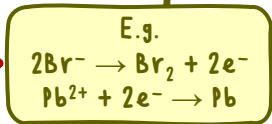
To remember electrode charge:  
Positive **A**node  
Negative **I**s **C**athode

## Half equations

Write half equations for the process at each electrode

Balance the electrons to combine half equations

Show reduction reactions at the cathode, oxidation reactions at the anode



**AQA**

