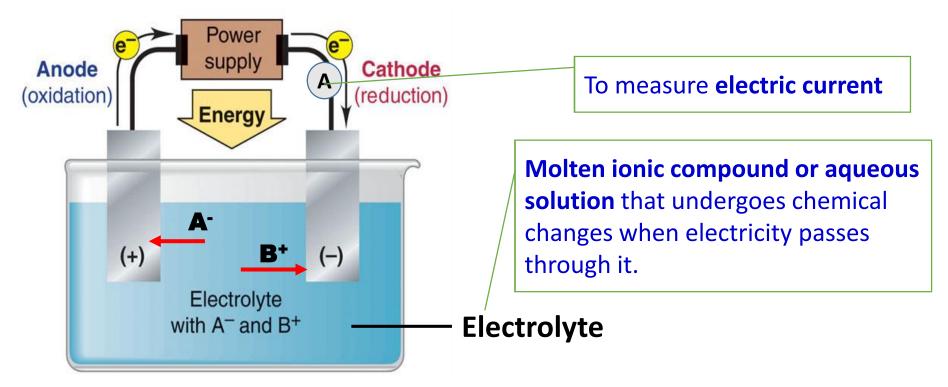
ELECTROLYTIC CELL



Anions are attracted to anode (positive electrode). Cations are attracted to cathode (negative electrode).

Anions are discharged at anode by **losing** $e^- \Rightarrow$ **Oxidation** occurs at **anode** Cations are discharged at cathode by **gaining** $e^- \Rightarrow$ **Reduction** occurs at **cathode**

Electrons leave the battery and travel towards cathode.

Electrons return to battery from anode.

- An electrolytic cell is made up of two electrodes immersed in an electrolyte.
- Electrolysis is the process occurred in electrolytic cell in which electrical energy is used to cause non-spontaneous redox reactions at electrodes.
- Electrolysis involves the breaking down a compound into its constituent elements by passing electricity through it.
- A direct current is passed through the electrolytic cell from a power supply such as battery.
- When the cell is in operation, the power supply acts as an 'electron pump', pushing electrons onto the negative electrode (cathode) and removing electrons from the positive electrode (anode).
- Electrodes used are usually inert electrodes such as platinum, Pt or graphite, C that do not take part in the redox reaction.