

CHEMISTRY – YEAR 10 – Chemical Changes Part II FOUNDATION

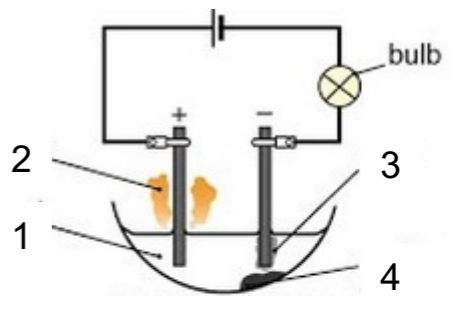
A CHEMICAL CHANGES

1	Electrolysis	Breaking down substance using electricity
2	Electrolyte	Chemical broken down in electrolysis Ions that are molten or dissolved in water
3	Anode	Positive electrode attracts negative ions Negative ions are oxidised
4	Cathode	Negative electrode attracts positive ions Positive ions are reduced
5	Electrode material	Inert (unreactive) substance Graphite or Palladium
6	Oxidation	Losing Electrons
7	Reduction	Gaining Electrons

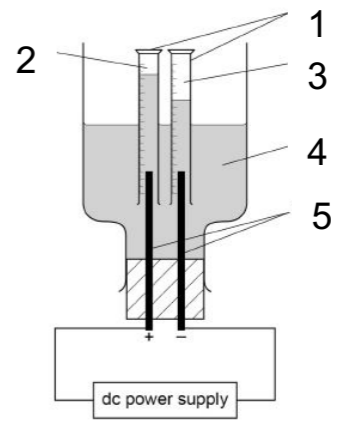
B ALUMINIUM PRODUCTION

1	Bauxite	Aluminium ore (Source of Al_2O_3)
2	Cryolite	Mixed with aluminium oxide to reduce melting temperature
3	Carbon Anode replaced	Oxygen reacts with anode producing CO_2

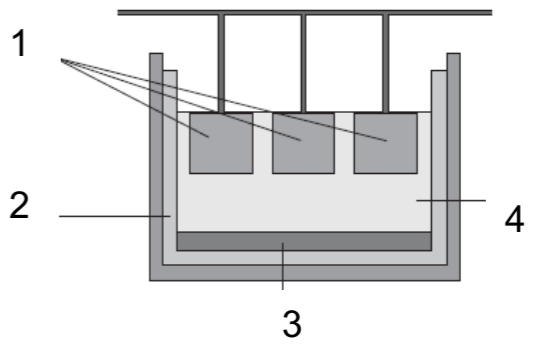
C LEAD BROMIDE ELECTROLYSIS

1	Molten Lead Bromide	
2	Bromine Vapour	
3	Lead	
4	Molten Lead	

D AQUEOUS ELECTROLYSIS

1	Measuring Cylinders	
2	Chlorine	
3	Hydrogen	
4	Sodium Chloride Solution	
5	Graphite Electrodes	

E ALUMINIUM OXIDE ELECTROLYSIS

1	Anodes	
2	Cathode	
3	Molten Aluminium	
4	Molten Aluminium Oxide	