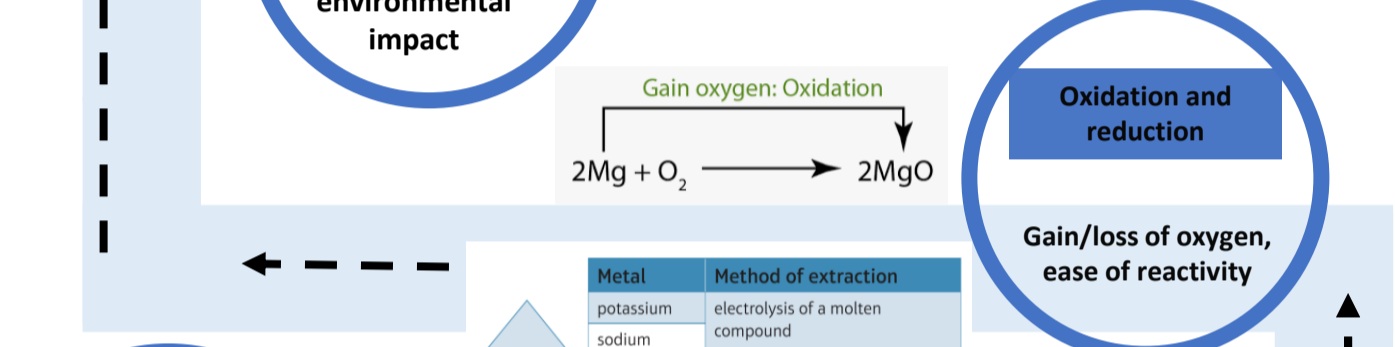
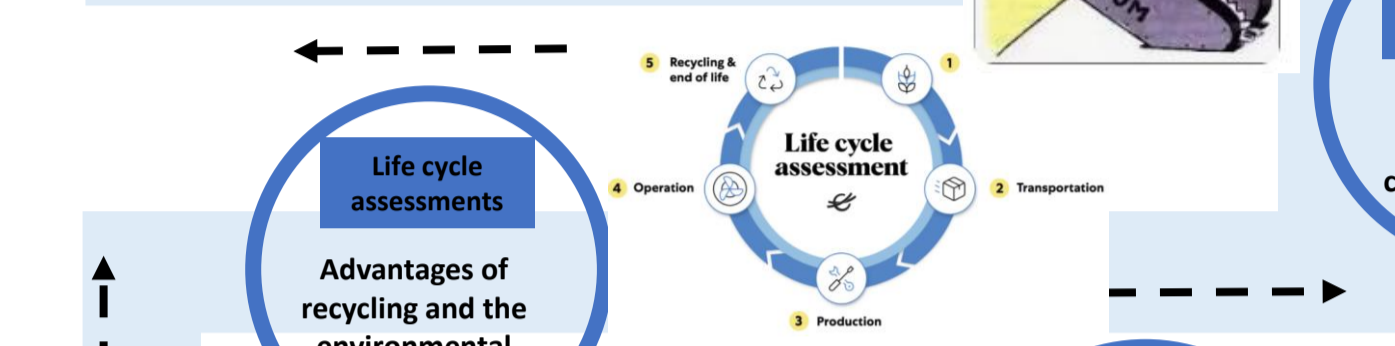
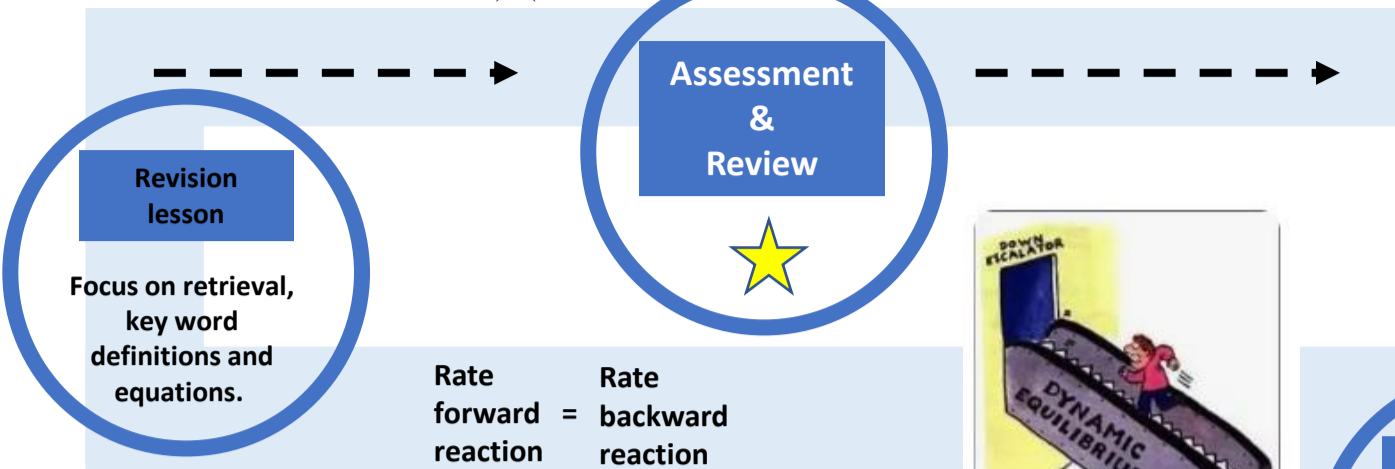


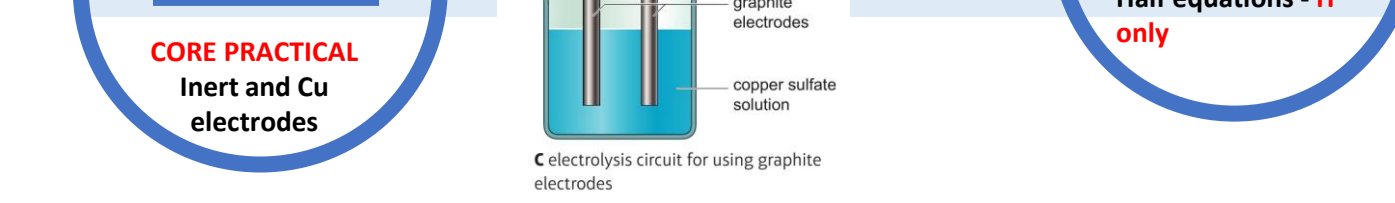
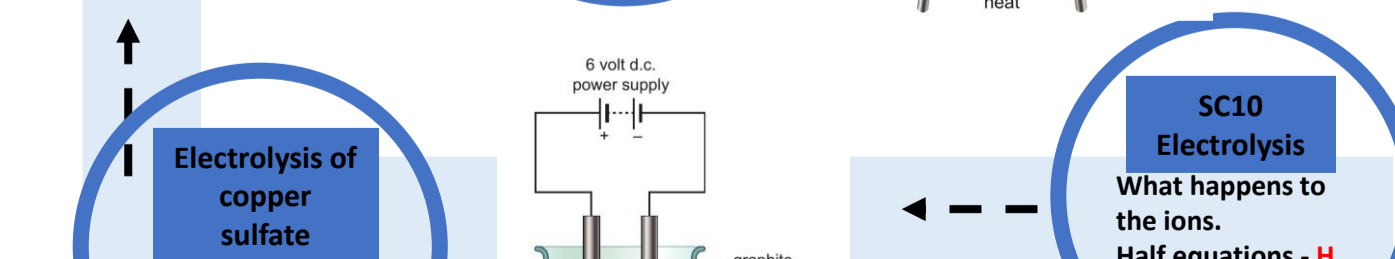
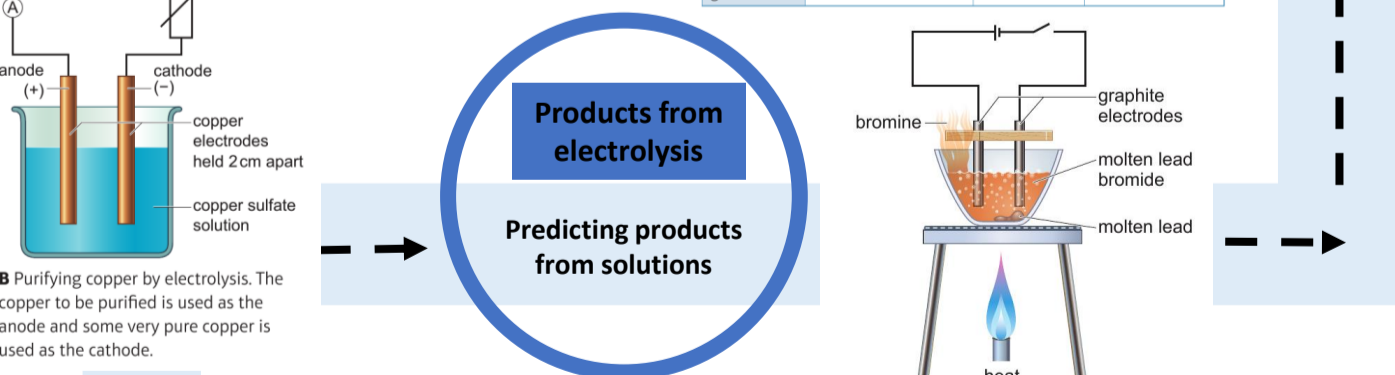
Assessment = ★

Self-assessment = ★



Metal	Method of extraction
potassium	electrolysis of a molten compound
sodium	electrolysis of a molten compound
calcium	
magnesium	
aluminium	
(carbon)	
zinc	heat an ore with carbon
iron	
copper	
silver	found as the uncombined element
gold	

Metal	Reaction with water	Reaction with dilute acid	Tendency of metal atoms to form cations
potassium	react with cold water to form hydrogen and a metal hydroxide	react violently	↑ increasing ability of metal atoms to form positive ions
sodium	react with cold water to form hydrogen and a metal hydroxide	react violently	
calcium		react to form hydrogen and a salt solution	
magnesium	react very slowly, if at all, with cold water but react with steam to form hydrogen and a metal oxide		
aluminium			
zinc			
iron			
copper	do not react with cold water or steam	do not react	
silver			
gold			



**OIL** - Oxidation is Loss of electrons  
**RIG** - Reduction is Gain of electrons

Retrieve:  
Year 7 Word equations  
Year 8 Metals  
Year 9 extracting metals  
CC5 Ions

**Keywords**

Anion, cation, anode, cathode, electrolyte, half equation, oxidation, reduction, inert, redox reaction, reactivity series, spectator ion, bioleaching, native state, ore, phytoextraction, corrosion, life cycle assessment, recycling, renewable, finite. . Check the word sheet for more key words and definitions.