

Key Stage 4 Curriculum Map 2021 - 2022

Year 10 GCSE Chemistry

Term 2

Subject: Chemistry			
Focus/Topic	UAE Links	HPL LINKS	Home Learning / Reading
 Metals Identify transition metals Usefulness of alloys Reduction Extraction of iron 	Link to rusting that can be seen on vehicles in everyday life	VAA: Empathetic Collaborative: The ability to seek out opportunities to	Guided Reading
 Metals Analysing different metals in water Compare n construct reactivity series Describe displacement reaction Construct oxidation, reduction, and redox equations 		receive responses to your work; present your own views and ideas clearly and concisely; listen to the views of others; be willing and able to work in teams; take a variety of roles and be able to evaluate your own ideas and contributions.	Guided reading
 Metals Decomposition of metal carbonates Naming product when metal carbonate react with acid Construct formula for different metal carbonates 		ACP: Analysing Critical thinking: The ability to deduct, hypothesise, reason, seek	Guided Reading
ElectrolysisIntroductionElectrolysis of solutions	This topic will be linked to the common uses of electrolysis in items such		Guided reading

- Oxidation and Reduction	as batteries. Research				
Electrolysis	the initiatives in place in				
- Redox equations	the UAE for the recycling				
·	of different batteries		Cuided reading		
- Extracting aluminium	such as from mobile		Guided reading		
- Electrolysis of brine	phones and laptops.				
- Electroplating	Students will consider				
• Electrolysis					
- Planning an electrolysis experiment	the advantages of				
- Observing an electrolysis	different types of cells				
experiment (demo)	for batteries and their		Guided reading		
 Interpreting results from an 	different real-life				
electrolysis	applications.				
 Writing a report for an electrolysis 					
HALF TERM					
 Quantitative Chemistry 		VAA: Agile	Guided reading		
 Writing formula 	Students challenged to	Open minded: The ability			
(i) Simple molecular formula	link the breakdown of	to take an objective view of			
(ii) Complex molecular formula	statues/buildings made	different ideas and beliefs;			
 Ionic formula 	from carbonates in the	become more			
Quantitative Chemistry	UAE from acid rain	receptive to other ideas and beliefs based on the	Guided reading		
 Writing word equations 		arguments of others; change			
 Writing chemical equations 		arguments of seners, enange			
- Writing balance chemical equations		ideas should there be			
Quantitative Chemistry		compelling evidence to do so.	Guided reading		
- Calculation relative formula mass			Ğ		
- Calculating moles		ACP: Linking			
Acids, Bases and Salt		Connection	Guided reading		
- The pH scale		finding: The			
- Acids and Bases		ability to use			
- Neutralisation		connections from			
Acids, Bases and Salt		past experiences to	Guided reading		
- Neutralisation continued		seek possible	- Calded Fedding		
- Ammonia		generalisations			
- Metal carbonates					
SPRING BREAK					
STAINS BREAK					