

## Key Stage 4 Curriculum Map 2020 - 2021

## Year 11 GCSE Chemistry

## Term 2

Subject: Chemistry	Year: 11	
Focus/Topic	UAE Links	Home Learning / Reading
Atomic Structure Revision	Compare the states of matter of different	Guided reading
	materials they experience in the UAE	
	Evaluate the use of radioactive isotopes	
	for Nuclear Energy in the UAE. Consider	
	if this is a good alternative to using fossil	
	fuels.	
Structure and Bonding Revision	Research the use of metals in the UAE	Guided reading
	and relate their properties to their use.	
	Analyse the percentage of different gases	
	found in the air within the UAE and	
	determine their structure and bonding.	
• The Periodic Table Revision	Reflect on the use of common elements	Guided reading
	in the UAE and consider how their	
	abundance could impact the UAE in the	
	future. Compare and contrast the use of	
	different metals in electrical cables for	
	the UAE. Consider if copper is the best	
	option.	
<ul> <li>Metals and Electrolysis Revision</li> </ul>	This topic will be linked to the common	Guided reading
	uses of electrolysis in items such as	
	batteries. Research the initiatives in	
	place in the UAE for the recycling of	
	different batteries such as from mobile	
	phones and laptops. Students will	

	consider the advantages of different	
	types of cells for batteries and their	
	different real-life applications.	
Quantitative Chemistry Revision		Guided reading
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	Half Term	
Chemical Analysis Revision	Students asked to apply their knowledge	Guided reading
	to a scenario based in the UAE where	
	they must produce a sample of drinkable	
	water when stranded on Jumeirah Beach.	
	Students are challenged to explore the	
	importance of inks and dyes for example	
	within the UAE Flag. Research how	
	chemical analysis can be used to support	
	Forensic Investigations.	
Acids, Bases and Salts Revision	Students challenged to link the	Guided reading
,	breakdown of statues/buildings made	C
	from carbonates in the UAE from acid	
	rain.	
Organic Molecules Revision	Research the use of alternative fuels and	Guided reading
	renewable energies in the UAE. Explore	
	the initiatives in place to reduce the	
	carbon footprint of the UAE and to reach	
	a more sustainable lifestyle.	
Rate and Extent of Rate Revision	Link to the industrial production of	Guided reading
	pharmaceuticals and why catalysts can be	-
	useful for industry e.g. Pharmax or Life	
	Pharma. Students challenged to explore	
	the use of fetrilisers to promote plant	
	growth in the UAE conditions (Biology	
	link)	
Energy Changes Revision	Link to the use of cold packs for athletes	Guided reading
<i></i>	competing in the Dubai Fitness Challenge	
	End of term 2	