

Key Stage 5 Curriculum Map 2020 - 2021

Year 12 AS level Chemistry

Term 2

Subject: Chemistry	Year: 12	
Focus/Topic	UAE Links	Home Learning / Reading
Inorganic	Students challenged to explore the uses	Guided reading
- Periodicity	of the Period 3 elements within the UAE	
 Trends in the Properties of Period 3 	e.g. for building, for technology, for	
 Trends in Ionisation energy 	transport.	
• Inorganic		Guided reading
 The physical and chemical properties of Group 2 		
- Trends in Group 2		
Inorganic	Students challenged to explore the uses	Guided reading
- The physical and chemical properties of Group 7	of the halogens, specifically chlorine and	
- Trends in Group 7	bromine, for water treatment in the UAE.	
- Reactions of halide ions	Consider the advantages and	
- Uses of chlorine	disadvantages of this process.	
 Inorganic revision and assessment 		Guided reading
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Half	Term	
Organic		Guided reading
- Introduction to Organic Chemistry		
- Revision of alkanes, alkenes, alcohols and carboxylic acids		
- Structure and bonding of organic molecules		
Organic	Students challenged to research the use	Guided reading
- Fractional Distillation and Cracking	of crude oil in the UAE. The volume of	
- Alkanes (naming, structure, properties)	petrol used in the UAE every year and	

- Reactions of Alkanes (combustion)	how does this compare to other	
	countries.	
Organic	Students link free radical chain reactions	Guided reading
-Reactions of Alkanes (free radical reactions)	to the use of this process in suncream to	
 Halogenalkanes (naming, structure, properties) 	prevent sun damage to skin. They must	
- Reactions of Halogenalkanes (nucelophilic substitution)	consider why this is so important in the	
	UAE and how this links to the goals to	
	have a healthy community.	
Organic	Students challenged to research and	Guided reading
- Reactions of Halogenalkanes (elimination)	discuss the initiatives in place in the UAE	
- Reactions of alkenes (combustion, addition, polymers)	to improve recycling of plastics and	
	increase sustainability.	
Organic	Students challenged to determine if	Guided reading
 Alcohols (naming, structures, properties) 	bioethanol would be a suitable	
 Reactions of alcohols (combustion, oxidation)C 	alternative fuel in the UAE. How would	
	this compare to the use of bioethanol in	
	Brazil.	
SPRING BREAK		