Key Stage 5 Curriculum Map 2020 - 2021

Year 13 A level Chemistry

Term 2

Subject: Chemistry	Year: 13	
Focus/Topic	**UAE Links**	**Home Learning / Reading**
YEAR 13 MOCKS		
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• Organic - Nomenclature - Optical Isomers	Links to the pharmaceutical companies in Dubai (Norvartis, Glaxo, Biotech) and the importance of optical isomers	Guided reading
• Organic - Synthesis of optically active compounds - Introduction to aldehydes and ketones - Reactions of the carbonyl group in aldehydes and ketones		Guided reading
• Organic -Carboxylic acids and ester - Reactions of carboxylic acids and esters - - Acylation	Link to uses of esters in the UAE for fragrances in perfumes and food	Guided reading
• Organic - Introduction to arenes - Arenes – physical properties and reactivity - Reactions of arenes	Links to the source of benzene found in crude oil and this impact of the use of oil in the UAE	Guided reading
Half Term		
• Organic - Introduction to amines - The properties of amines as bases - Amines as nucleophiles and their synthesis - Condensation polymers	Link to the sustainability initiatives in the UAE and consider the advantages and disadvantages of using condensation polymers for recycling and reuse	Guided reading

• Organic - Introduction to amino acids - Peptides, polypeptides and proteins - The actions of anti-cancer drugs	Link to the medical treatments for cancer used in Dubai and any new technology/ innovation that is being used for this treatment	Guided reading
• Organic - Synthetic routes - Organic Analysis - NMR		Guided reading
• Organic - Proton NMR - Interpreting proton NMR spectra - Chromatography		Guided reading
• Practical Skills - Revision of required practical - Additional experimental questions practice		Guided reading
End of term 2		