

Key Stage 4 Curriculum Map 2021-22

Term 3

Subject: Chemistry		Year: Year 10	
Focus/Topic	UAE Links	HPL Links	Home Learning / Guided Reading
<ul style="list-style-type: none"> Chemical Analysis Separating techniques (filtration, crystallization, chromatography) 	Importance of water filtration in the UAE and debating the advantages and disadvantages of using chlorine in water	VAA : Hardworking Practice <i>The ability to train and prepare through repetition of the same processes in order to become more proficient.</i> Resilience <i>The ability to overcome setbacks. Remain confident, focused, flexible and optimistic.</i> VAA : Agile Risk Taking <i>The ability to work with confidence within unfamiliar scenarios as we apply prior learning to new scenarios</i> ACP : Linking Connection Finding <i>The ability to use connections from past experiences to seek possible generalisations</i> ACP : Analysing Critical/ Logical Thinking	Guided Reading
<ul style="list-style-type: none"> Chemical Analysis <ul style="list-style-type: none"> Gas testing Testing for Ions 			Guided Reading
<ul style="list-style-type: none"> Chemical Analysis <ul style="list-style-type: none"> Testing for Ions Assessment 			Guided Reading
<ul style="list-style-type: none"> Acids, Bases and Salts <ul style="list-style-type: none"> The pH scale Acids and bases 	Investigating the pH of water supplies in the UAE and the impact on the environment. How does the petrol usage affect the pH of natural water in the UAE?		Guided Reading
<ul style="list-style-type: none"> Acids, Bases and Salts <ul style="list-style-type: none"> Neutralisation Ammonia 	Exploring the use of ammonia in the production of fertilisers which are required to support plant growth in the UAE (food supply chain)		Guided Reading
<ul style="list-style-type: none"> Acids, Bases and Salts <ul style="list-style-type: none"> Metal carbonates Assessment 			Guided Reading
<ul style="list-style-type: none"> Rates of Reaction <ul style="list-style-type: none"> Collision theory 	Relate the measuring of rate to industrial processes in the UAE		Guided Reading

<ul style="list-style-type: none"> • Factors Affecting Rate 	e.g. medical field. Exploring the need for rapid production of the COVID vaccine	<i>The ability to deduct, hypothesise, reason, seek supporting evidence relating to the required practicals explored in these units</i>	
<ul style="list-style-type: none"> • Rates of Reaction <ul style="list-style-type: none"> - Reporting a Rate Investigation • Effects of a Catalyst 			Guided Reading
<ul style="list-style-type: none"> • Rates of Reaction <ul style="list-style-type: none"> - Equilibrium - Haber Process - Contact Process • Assessment 			Guided Reading