

Year 13 Chemistry Key Stage 5 Curriculum Map 2021-22

Subject: Chemistry			Year: 13	
Focus/Topic	UAE Links	HPL Links	Home Learning / Guided Reading	
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> Enthalpy Change Born Haber Cycles Amount of Substance AS Revision 		VAA: Empathetic Collaborative <i>The ability to seek out opportunities to 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.</i>	Guided Reading	
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> More Enthalpy Changes Why Do Chemical Reactions Take Place? The Rate of Chemical Reactions 	Summarise chemical reactions in everyday life within the UAE and consider why increasing or decreasing their rate of reaction would be important		Guided Reading	
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> Electrode Potentials and Electrochemical Series Predicting the Direction of Redox Reactions The Rate Expression and Order of Reaction 	Discuss the preventative measures taken to ensure the Burj Khalifa and other famous UAE landmarks do not corrode (redox reaction)		ACP : Metathinking Strategy Planning <i>The ability to approach new learning experiences by actively attempting to connect it to existing knowledge or concepts and hence determine an appropriate view and think about the work.</i>	Guided Reading
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> Electrochemical Cells Electrochemical Cells Investigation Planning a Rate Investigation 	Explain how the Electrochemistry research being completed by Khalifa University (Abu Dhabi) could support the push for sustainable energy in Dubai		Guided Reading	
Half term				
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> Defining an Acid The pH scale The Arrhenius Equation Determining the Rate Equation 	Discuss any possible relationship between the fast food industry in Dubai and the sale of antacid medications	VAA : Hardworking Practice <i>The ability to train and prepare through repetition of the same processes in order to become more proficient.</i>	Guided Reading	
<ul style="list-style-type: none"> Physical Chemistry <ul style="list-style-type: none"> The Rate Determining Step Equilibrium constant Weak Acids and Bases 			Resilience <i>The ability to overcome setbacks. Remain confident, focused, flexible and optimistic.</i>	Guided Reading

- Acid-Base Titrations			
<ul style="list-style-type: none"> • Physical Chemistry <ul style="list-style-type: none"> - Choice of Indicators for Titrations - Planning an Acid-Base Titration 	Research common diagnostic indicators that may be used if you were to visit a hospital here in the UAE	ACP: Linking Generalisation <i>The ability to see how what is happening in this instance could be extrapolated to similar situations.</i>	Guided Reading
<ul style="list-style-type: none"> • Physical Chemistry <ul style="list-style-type: none"> - Buffer Solutions • Practical Skills <ul style="list-style-type: none"> - Variables - Hypothesis - Methods - Risk assessments Interpreting data 			Guided Reading
<ul style="list-style-type: none"> • Inorganic Chemistry <ul style="list-style-type: none"> - Reactions of Period 3 elements - The Oxides of Elements in Period 3 	Emirates utilise aluminium in the construction of their planes. Discuss the properties that make aluminium suitable for this.		Guided Reading

Winter Break