

## Year 11 Chemistry Curriculum Map 2021 - 2022

### Term 1

Subject: Chemistry		Year: 11	
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> <li>Introduction and Expectations including key skills</li> </ul>		<p><b>VAA: Empathetic</b>            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></p> <p><b>ACP: Analysing</b>            Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i></p>	Year 10 summer work for Science
<ul style="list-style-type: none"> <li>Practical Module               <ul style="list-style-type: none"> <li>Variables</li> <li>Equipment</li> </ul> </li> </ul>			Guided Reading
<ul style="list-style-type: none"> <li>Practical Module               <ul style="list-style-type: none"> <li>Interpreting Results</li> <li>Analysis</li> <li>Planning a Method</li> </ul> </li> </ul>			Guided Reading
<b>WINTER MOCK</b>			
<b>WINTER MOCK</b>			
<ul style="list-style-type: none"> <li>GCSE Revision               <ul style="list-style-type: none"> <li>Revision of topics covered so far</li> </ul> </li> </ul>		<p><b>VAA: Empathetic</b>            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</i></p>	Guided Reading
<ul style="list-style-type: none"> <li>Rate and Extent of Reaction               <ul style="list-style-type: none"> <li>Collision Theory</li> <li>Factors Affecting Rate</li> </ul> </li> </ul>			Guided Reading
<ul style="list-style-type: none"> <li>Rate and Extent of Reaction               <ul style="list-style-type: none"> <li>Reporting a Rate Investigation</li> </ul>               Required Practical with Rate of Reaction focus             </li> </ul>			Guided Reading

<ul style="list-style-type: none"> <li>• Rate and Extent of a Reaction <ul style="list-style-type: none"> <li>- Effect of a Catalyst</li> <li>- Equilibrium</li> <li>- Haber Process</li> <li>- Contact Process</li> </ul> </li> </ul>	<p>Consider the industrial production of pharmaceuticals and evaluate the use of catalysts for industry e.g. Pharmax or Life Pharma</p> <p>Evaluate the use of fertilisers to promote plant growth in the UAE conditions</p>	<p><i>able to evaluate your own ideas and contributions.</i></p> <p><b>ACP: Analysing</b>  <b>Critical thinking:</b> <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i></p>	<p>Guided Reading</p>
<p><b>Mid Term Break</b></p>			
<ul style="list-style-type: none"> <li>• Rate and Extent of a Reaction <ul style="list-style-type: none"> <li>- Effect of a Catalyst</li> <li>- Equilibrium</li> </ul> </li> </ul>	<p>Consider the industrial production of pharmaceuticals and evaluate the use of catalysts for industry e.g. Pharmax or Life Pharma</p>	<p><b>VAA: Agile</b>  <b>Open minded:</b> <i>The ability to take an objective view of different ideas and beliefs; become more receptive to other ideas and beliefs based on the arguments of others; change ideas should there be compelling evidence to do so.</i></p>	<p>Guided Reading</p>
<ul style="list-style-type: none"> <li>• Rate and Extent of a Reaction <ul style="list-style-type: none"> <li>- Haber Process</li> <li>- Contact Process</li> <li>- Revision and End of Topic Assessment</li> <li>-</li> </ul> </li> </ul>	<p>Evaluate the use of fertilisers to promote plant growth in the UAE conditions</p>		<p>Guided Reading</p>
<ul style="list-style-type: none"> <li>• Energy Changes <ul style="list-style-type: none"> <li>- Exothermic and Endothermic</li> <li>- Calculating Energy Changes</li> <li>- Bond Enthalpy</li> <li>- Cells</li> </ul> </li> </ul>	<p>Reflect on everyday reactions in the UAE and determine if they are exothermic or endothermic</p> <p>Evaluate the use of hydrogen fuel cells in the UAE as an alternative form of energy</p>	<p><b>ACP: Linking</b>  <b>Connection finding:</b> <i>The ability to use connections from past experiences to seek possible generalisations</i></p>	<p>Guided Reading</p>
<ul style="list-style-type: none"> <li>• Energy Changes <ul style="list-style-type: none"> <li>- Planning an energy changes investigation</li> <li>- Required Practical with Energy Change focus</li> <li>- Interpreting results of an energy changes investigation</li> </ul> </li> </ul>	<p>Connect your learning from an investigation to the use of cold packs in the UAE for athletes</p>		<p>Guided Reading</p>
<ul style="list-style-type: none"> <li>• Organic Chemistry <ul style="list-style-type: none"> <li>- Fractional Distillation</li> <li>- Hydrocarbons</li> </ul> </li> </ul>	<p>Describe the environmental problem with having sulfur in fuels and discuss how common you think this is in the UAE</p>		<p>Guided Reading</p>

	Explore the uses of different fractions of crude oil in the UAE		
<ul style="list-style-type: none"> <li>• Organic Chemistry <ul style="list-style-type: none"> <li>- Reactions of Hydrocarbons</li> <li>- Alcohols</li> </ul> </li> </ul>	Research the focus of the company Neutral Fuels here in Dubai and its link to the UAE National Agenda		Guided Reading
<ul style="list-style-type: none"> <li>• Organic Chemistry <ul style="list-style-type: none"> <li>- Carboxylic Acids</li> <li>- Esters</li> </ul> </li> </ul>	Discuss how esters can be used in the perfume industry within Dubai		Guided Reading
Winter Break			