

## Key Stage 5 Curriculum Map 2019 - 2020

### Term 2

Subject: Chemistry	Year: 13	
Focus/Topic	UAE Links	Home Learning / Reading
<ul style="list-style-type: none"> <li>• Inorganic Chemistry assessment</li> <li>• Organic               <ul style="list-style-type: none"> <li>- Nomenclature</li> <li>- Optical Isomers</li> </ul> </li> </ul>	Links to the pharmaceutical companies in Dubai (Norvartis, Glaxo, Biotech) and the importance of optical isomers	Guided Reading
<ul style="list-style-type: none"> <li>• Organic               <ul style="list-style-type: none"> <li>- Synthesis of optically active compounds</li> <li>- Introduction to aldehydes and ketones</li> <li>- Reactions of the carbonyl group in aldehydes and ketones</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>• Organic               <ul style="list-style-type: none"> <li>-Carboxylic acids and ester</li> <li>- Reactions of carboxylic acids and esters</li> <li>- Acylation</li> </ul> </li> </ul>	Link to uses of esters in the UAE for fragrances in perfumes and food	
<ul style="list-style-type: none"> <li>• Organic               <ul style="list-style-type: none"> <li>- Introduction to arenes</li> <li>- Arenes – physical properties and reactivity</li> <li>- Reactions of arenes</li> </ul> </li> </ul>	Links to the source of benzene found in crude oil and this impact of the use of oil in the UAE	
<ul style="list-style-type: none"> <li>• Organic               <ul style="list-style-type: none"> <li>- Introduction to amines</li> <li>- The properties of amines as bases</li> <li>- Amines as nucleophiles and their synthesis</li> <li>- Condensation polymers</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>• Mock Week</li> </ul>		
<b>Mid Term Break</b>		

<ul style="list-style-type: none"> <li>Organic <ul style="list-style-type: none"> <li>Introduction to amino acids</li> <li>Peptides, polypeptides and proteins</li> <li>The actions of anti-cancer drugs</li> </ul> </li> </ul>	Link to the medical treatments for cancer used in Dubai and any new technology/innovation that is being used for this treatment	Guided Reading
<ul style="list-style-type: none"> <li>Organic <ul style="list-style-type: none"> <li>Synthetic routes</li> <li>Organic Analysis</li> <li>NMR</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>Organic <ul style="list-style-type: none"> <li>Proton NMR</li> <li>Interpreting proton NMR spectra</li> <li>Chromatography</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>Practical Skills <ul style="list-style-type: none"> <li>Revision of required practical</li> <li>Additional experimental practice</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>Revision</li> </ul>		
<ul style="list-style-type: none"> <li>Paper 2 Organic and Physical Mock in class time</li> </ul>	Assessment Weeks	
<ul style="list-style-type: none"> <li>Mock feedback and revision</li> </ul>		
<b>Spring Break</b>		