

Year 11 Triple Chemistry Curriculum Plan							
	Core		Hinterland		NC Coverage	Assessment	Whole Education Opportunities
	Knowledge	Skills	Knowledge	Skills			
Hydrocarbons	<ul style="list-style-type: none"> <li>Describing and comparing alkanes and alkenes</li> <li>Reactions of alkanes and alkenes</li> </ul>	<ul style="list-style-type: none"> <li>Drawing organic molecules</li> <li>Using structural and molecular formulae</li> <li>Using IUPAC nomenclature</li> </ul>	<ul style="list-style-type: none"> <li>Use of fuels and plastics based hydrocarbon compounds</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	4CG4 4CG5 4CS4 4CI3 4WD2-5 4WE1-7 4WA1a-f 4WV1-6	<ul style="list-style-type: none"> <li>End of topic assessment (35 marks)</li> <li>PR points using mixed topic assessments</li> </ul>	<ul style="list-style-type: none"> <li>History – industrial revolution</li> </ul>
Alcohols and Carboxylic Acids	<ul style="list-style-type: none"> <li>Production of ethanol</li> <li>Understanding alcohols</li> <li>Understanding carboxylic acids</li> </ul>	<ul style="list-style-type: none"> <li>Comparing lab-based and industry-based production methods</li> <li>Comparing molecules in a homologous series</li> <li>Using experiments to investigate the combustion of alcohols</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	4CG4 4CG5 4CS4 4CI3 4WD2-5 4WE1-7 4WA1a-f 4WV1-6	<ul style="list-style-type: none"> <li>End of topic assessment (35 marks)</li> <li>PR points using mixed topic assessments</li> </ul>	<ul style="list-style-type: none"> <li>SMSC – safe alcohol consumption</li> </ul>
Polymers	<ul style="list-style-type: none"> <li>Addition polymerisation</li> <li>Polymer properties and uses</li> <li>Condensation polymerisation</li> <li>Problems with polymers</li> </ul>	<ul style="list-style-type: none"> <li>Using repeating units to understand polymer synthesis</li> <li>Comparing polymer types</li> <li>Assessing the pros and cons of an argument</li> </ul>	<ul style="list-style-type: none"> <li>Environmental impacts of plastics</li> </ul>	<ul style="list-style-type: none"> <li>Debating skills</li> </ul>	4CG4 4CG5 4CS4 4CI3 4WD2-5 4WE1-7 4WA1a-f 4WV1-6	<ul style="list-style-type: none"> <li>End of topic assessment (35 marks)</li> <li>PR points using mixed topic assessments</li> </ul>	<ul style="list-style-type: none"> <li>Geography – environmental impacts of plastics globally</li> <li>History – change in material usage over time</li> </ul>
Qualitative Analysis for ions	<ul style="list-style-type: none"> <li>Flame tests and photometry</li> <li>Testing for positive ions</li> <li>Testing for negative ions</li> </ul>	<ul style="list-style-type: none"> <li>Understanding emission spectra</li> <li>Interpreting graphs</li> <li>Carrying out ion tests</li> </ul>	<ul style="list-style-type: none"> <li>Use of emission spectra to analyse make up of stars</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	4CC2 4CC3 4WD2-5 4WE1-7 4WA1a-f 4WV1-6	<ul style="list-style-type: none"> <li>End of topic assessment (35 marks)</li> <li>PR points using mixed topic assessments</li> </ul>	<ul style="list-style-type: none"> <li>Art – use of colour to make scientific statements</li> </ul>
Bulk and surface properties of Matter (including Nanoparticles)	<ul style="list-style-type: none"> <li>Choosing materials based on properties and usage</li> <li>Composite materials</li> <li>Nanoparticles</li> </ul>	<ul style="list-style-type: none"> <li>Comparing and contrasting materials</li> <li>Unit conversion</li> <li>Calculating surface area to volume ratios</li> </ul>	<ul style="list-style-type: none"> <li>Use of nanotechnology in medicines and industry</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating processes</li> <li>Health and Safety</li> </ul>	4CG5 4CA6 4CS3 4CS4 4CI1 4CI2 4WD2-5 4WE1-7 4WA1a-f 4WV1-6	<ul style="list-style-type: none"> <li>End of topic assessment (35 marks)</li> <li>PR points using mixed topic assessments</li> </ul>	<ul style="list-style-type: none"> <li>IT – computing advances in nanotechnology</li> </ul>