










Curriculum Overview for Chemistry Year 11 Set 2

<p>Half Term 3: Organic chemistry.</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Identify the general formula for an alkane <input type="checkbox"/> Describe fractional distillation. <input type="checkbox"/> Describe the properties of hydrocarbons. <input type="checkbox"/> Explain the properties of hydrocarbons. <input type="checkbox"/> Describe cracking. <input type="checkbox"/> Explain why we do cracking. <input type="checkbox"/> Compare the reactivity of alkanes and alkenes. <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Identify alkenes. <input type="checkbox"/> Identify the general formula for an alkene and alkane. <p>Using resources</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> ▪ HT- Explain bioleaching and Phytomining. ▪ HT- Evaluate alternative biological methods of extracting metals. <p>Disciplinary Knowledge</p> <ul style="list-style-type: none"> ▪ 		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
<p>Half Term 4: Using resources</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> ▪ Define potable water ▪ Define LCA ▪ Describe how to test for pure water. ▪ Describe how to make potable water ▪ Describe ease of obtaining potable water from waste, ground and salt water. ▪ Evaluate ways of reducing the use of limited resources. <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> ▪ Evaluate ways of reducing the use of limited resources. ▪ Compare LCA for plastic and paper bags. 		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Alkanes, Alkenes, Catalytic cracking, Combustion, Complete combustion, Crude oil, Cracking, Fractional distillation, Homologous series, Hydrocarbons, Steam cracking</p> <p>Bioleaching, ore, phytomining</p>
		<p>Baseline Recall questions to start every lesson End of unit assessment</p>
		<p>Revision Card preparation for every lesson Repetition of use of revision cards for end of unit assessment Exam questions - application</p>
		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Desalination Displacement Finite resources Ground water Life cycle assessment (LCA) Potable water Raw materials Renewable resources Sterilisation Sustainable development</p>
		<p>Baseline Recall questions to start every lesson End of unit assessment</p>
		<p>Revision Card preparation for every lesson Repetition of use of revision cards for end of unit assessment Exam questions - application</p>