

Bellerive FCJ Catholic College



Department: Chemistry (Separate)

Year Group: 11

Bold indicates building on previous knowledge

Term	Learning Focus	Key Knowledge and Skills	Assessment	Challenge and Enrichment
1	C8 – Rates and equilibrium C9 – Crude Oil and Fuels C10 – Organic Reactions C11 – Polymers C12 – Chemical Analysis C13 – The Earth's Atmosphere	<ul style="list-style-type: none"> Reversible reactions, energy and reversible reactions, dynamic equilibrium, altering conditions. Hydrocarbons (alkanes), fractional distillation, burning hydrocarbon fuels, cracking hydrocarbons. Reactions of alkenes, reactions and uses of alcohols, carboxylic acids and esters. Addition polymers, condensation polymers, natural polymers, DNA Pure substances and mixtures, Chromatography (Required Practical), Gas tests, testing for positive ions, testing for negative ions (Required Practical), instrumental analysis. History of the atmosphere, evolving atmosphere, greenhouse gases. 	C8 EOU HW (H/F), Therapy followed by C8 GCSEPOD C9 EOU HW (H/F), Therapy followed by C9 GCSEPOD C10 EOU HW (H/F), Therapy C11 EOU HW (H/F), Therapy C12 EOU HW (H/F), Therapy followed by C12 GCSEPOD	C8 Essential knowledge. Rates of reaction Padlet https://padlet.com/herseyd3/chemistry-paper-2-4wr5rgoftnuyb0kv C9 Essential knowledge. Organic Chemistry Padlet https://padlet.com/herseyd3/chemistry-paper-2-4wr5rgoftnuyb0kv C10 Essential knowledge. C11 Essential knowledge. C12 Essential knowledge. Analysis Padlet https://padlet.com/herseyd3/chemistry-paper-2-4wr5rgoftnuyb0kv
2	C13 – The Earth's Atmosphere C14 – The Earth's Resources	<ul style="list-style-type: none"> Climate change, atmospheric pollutants. Finite and renewable resources, potable water (Required Practical), treating waste water, 	C13 EOU HW (H/F), Therapy followed by C13 GCSEPOD C14 EOU HW (H/F), Therapy followed by C14 GCSEPOD	C13 Essential knowledge. Atmosphere Padlet https://padlet.com/herseyd3/chemistry-paper-2-4wr5rgoftnuyb0kv C14 Essential knowledge.

	C15 – Using Resources	<p>extracting copper (H only), Life cycle assessments, recycling.</p> <ul style="list-style-type: none">• Rusting, alloys, thermosetting and thermosoftening polymers, glass, ceramics, composites, Haber process, fertilisers	C15 EOU HW (H/F), Therapy	<p>Using Resources Padlet https://padlet.com/herseyd3/chemistry-paper-2-4wr5rgoftnuyb0kv</p> <p>C15 Essential knowledge</p>
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