

Chemistry Long Term Programme of Study Year 11 2021-2022

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	Revision of Paper 1 Topics		Y11 Baseline Testing	C7- Organic Chemistry				
Core Learning				<p>C7-Explain the importance of carbon compounds as organic compounds, in terms of structure and properties.</p> <ul style="list-style-type: none"> -Recognise substances as alkanes given their formulae in these forms. -Recognise substances as alkenes given their formulae in these forms -Describe the process of fractional distillation -Describe the properties of hydrocarbons and identify trends -WS 1.2, 4.1 Investigate the properties of different hydrocarbons -Explain the process of cracking and why it is useful 				
Opportunities for Challenge				Determine name and therefore properties from chemical formula.				
Assessment				End of Topic Tests				

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	C8 – Chemical Analysis				Mock Exams		

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Core Learning	<p>C8-Explain a variety of instrumental methods can be used to analyse substances</p> <ul style="list-style-type: none"> -Use melting point and boiling point data to distinguish pure from impure substances. -Explain how paper chromatography separates mixtures and calculate retention factor -RP 6 Investigate how paper chromatography can be used to separate and tell the difference between coloured substances -Explain the tests for a variety of gases, including oxygen and chlorine 	Revision of Paper 2 Topics		
Opportunities for Challenge	<p>Identification of ions by chemical and spectroscopic means</p>			
Assessment	<p>End of Topic Tests</p>			

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Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Area of Study	C7- Organic Chemistry	C8 – Chemical Analysis	C9 Chemistry of the Atmosphere	C10 - Using Resources	Science Application – Focus on exam questions and Science skills		
Core Learning	C7-Explain the importance of carbon compounds as organic compounds, in terms of structure and properties. Revision	C8-Explain a variety of instrumental methods can be used to analyse substances Revision	C9-Describe and explain the factors which can affect the chemistry of the Earth's atmosphere Revision	C10-Explain ways to use the Earth's natural resources to manufacture useful products Revision			
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions			
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	GCSE Exams		

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	SUMMER
Area of Study							
Core Learning							
Opportunities for Challenge							
Assessment	GCSE Exams						