

# Year 11 Long Term Scheme of Learning 2024 - 2025

## Subject: Separate Science - Chemistry

HELSEBY

High School



Achieving Success  
Valuing Others

Date	Unit(s)
<b>Chemistry Separates</b>	
<b>02/09/2024</b>	<b>C6 'Rate &amp; Extent of Chemical Reactions' – equilibria- Key ideas:</b>
09/09/2024	<ul style="list-style-type: none"> <li>• Reversible reactions &amp; equilibrium</li> <li>• Effect of changing reaction conditions eg temperature, pressure and concentration</li> </ul>
16/09/2024	
23/09/2024	
30/09/2024	
07/10/2024	
14/10/2024	<b>C7 Organic Chemistry - Key ideas:</b>
21/10/2024	<ul style="list-style-type: none"> <li>• Fractional distillation of crude oil</li> <li>• Alkanes and Alkenes (Cracking)</li> <li>• Combustion of fuels</li> <li>• Alcohols</li> </ul>
<b>06/01/2025</b>	<b><u>PPE 1 GCSE Chemistry Paper 1 Units C1, C2, C3, C4, C5 only 100 marks w/c 6<sup>th</sup> Nov 2023</u></b>
13/01/2025	<b>C7 Organic Chemistry - Key ideas:</b>
20/01/2025	
27/01/2025	
03/02/2025	
10/02/2025	
	<b>C8 Chemical Analysis - Key ideas:</b> <ul style="list-style-type: none"> <li>• Pure substances &amp; mixtures</li> <li>• Formulations</li> <li>• <b>Required Practical – Chromatography</b></li> <li>• Gas Tests</li> <li>• Cation &amp; anion tests</li> </ul>
<b>24/02/2025</b>	<b>C8 Chemical Analysis - Key ideas:</b>
03/03/2025	<ul style="list-style-type: none"> <li>• <b>Required Practical – Chemical Tests</b></li> </ul>

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10/03/2025	<ul style="list-style-type: none"> <li>Instrumental analysis</li> </ul> <p><b>C9 Atmosphere - Key ideas:</b></p> <ul style="list-style-type: none"> <li>Evolution of Earth's atmosphere</li> <li>Greenhouse gasses &amp; climate change</li> <li>Carbon footprints</li> <li>Atmospheric pollutants</li> </ul>
17/03/2025	
24/03/2025	
31/03/2025	
<b>21/04/2025</b>	<p><b>C10 Sustainable development</b></p> <p><b>Key ideas:</b></p> <ul style="list-style-type: none"> <li>Potable water and water treatment</li> <li><b>Required Practical – Purification of water</b></li> <li>Alternative methods of metal extraction</li> <li>Life cycle assessment and reducing the use of resources</li> <li>Metals – corrosion prevention &amp; alloys</li> <li>Ceramics, polymers &amp; composites</li> <li>The Haber process &amp; fertilizers</li> </ul>
28/04/2025	
05/05/2025	
12/05/2025	
19/05/2025	
<b>02/06/2025</b>	<p><b>Revision &amp; Exam Preparation</b></p> <p><b>GCSE Examination Season.</b></p>
09/06/2025	
16/06/2025	
23/06/2025	
30/06/2025	
07/07/2025	<p><b>GCSE Examination Season.</b></p>
14/07/2025	