

# Year 11 Long Term Scheme of Learning 2023-24

## Combined Science – Higher Tier

Date (w/b)	Exams	Biology	Chemistry	Physics
4/9/23		<b>B6 Inheritance, Variation and Evolution</b> <ul style="list-style-type: none"> <li>B6.1 Meiosis</li> <li>B6.1 Sexual vs Asexual reproduction</li> <li>B6.1 Inheritance (Genetic crosses)</li> <li>B6.1 DNA</li> <li>B6.2 Genetic Engineering</li> </ul>	<b>C6 'Rate &amp; Extent of Chemical Reactions' Equilibria- Key ideas:</b> <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> <b>C7 'Organic Chemistry' -Key ideas:</b> <ul style="list-style-type: none"> <li>Fractional distillation of crude oil</li> <li>Alkanes</li> </ul>	<b>P10 – Force &amp; Motion</b> <ul style="list-style-type: none"> <li>P10.1 – Force &amp; acceleration</li> <li>P10.1 – Required practical</li> <li>P10.2 – Weight &amp; Terminal velocity</li> <li>P10.3 – Forces &amp; braking</li> <li>P10.4 – Momentum</li> <li>P10.5 – Forces &amp; elasticity</li> </ul> <b>P4 – Electric circuits</b> <ul style="list-style-type: none"> <li>P4.2 – Current &amp; Charge</li> <li>P4.3 – Potential difference</li> <li>P4.3 – Required practical</li> <li>P4.4 – Component characteristics</li> </ul>
11/9/23				
18/9/23				
25/9/23				
2/10/23				
9/10/23				
16/10/23				
30/10/23		<b>B6 Inheritance, Variation and Evolution</b> <ul style="list-style-type: none"> <li>B6.2 Variation</li> <li>B6.2 Selective Breeding</li> <li>B6.3 Evolution</li> <li>B6.3 Fossils</li> <li>B6.3 Classification and Extinction</li> </ul> <b>B7 Ecology</b> <ul style="list-style-type: none"> <li>B7.1 Communities and Abiotic/Biotic factors</li> <li>B7.1 Distribution of Organisms</li> </ul>	<b>PPE 1 GCSE Chemistry Paper 1 Units C1, C2, C3, C4, C5 only 70 marks</b> <b>C7 'Organic Chemistry' -Key ideas:</b> <ul style="list-style-type: none"> <li>Alkenes (Cracking)</li> <li>Combustion of fuels</li> </ul> <b>C8 Chemical Analysis - Key ideas:</b> <ul style="list-style-type: none"> <li>Pure substances &amp; mixtures</li> <li>Formulations</li> <li>Required Practical 12 – Chromatography</li> <li>Gas Tests</li> </ul> <b>C9 Atmosphere - Key ideas:</b> <ul style="list-style-type: none"> <li>Evolution of Earth's atmosphere</li> </ul>	<b>PPE 1: GCSE Physics Paper 1 (P1 – P7)</b> <b>P4 – Electric circuits cont.</b> <ul style="list-style-type: none"> <li>P4.5 &amp; 6 – Series &amp; Parallel circuits</li> <li>P2.4 – Required practical SHC</li> </ul> <b>P15 – Electromagnetism</b> <ul style="list-style-type: none"> <li>P15.1 – Magnetic fields</li> <li>P15.2 – Magnetic fields of electric currents</li> <li>P15.4 – The motor effect</li> </ul>
6/11/23				
13/11/23				
20/11/23				
27/11/23				
4/12/23				
11/12/23				
1/1/24		<b>B7 Ecology</b> <ul style="list-style-type: none"> <li>B7.1 Adaptations</li> <li>B7.2 Trophic levels</li> </ul>	<b>C9 Atmosphere - Key ideas:</b> <ul style="list-style-type: none"> <li>Greenhouse gasses &amp; climate change</li> <li>Carbon footprints</li> <li>Atmospheric pollutants</li> </ul>	<b>P12 – Wave Properties</b> <ul style="list-style-type: none"> <li>P12.1 – Nature of waves</li> <li>P12.2 – Properties of waves</li> <li>P12.4 – More about waves</li> </ul>
8/1/24				

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15/1/24		<ul style="list-style-type: none"> <li>B7.2 Required Practical recap– Sampling – Completed in Summer</li> <li>B7.3 Waste management</li> <li>B7.3 Global warming and biodiversity</li> <li>Revision for PPE</li> </ul>	<p><b><u>PPE 2 GCSE Chemistry Paper 2</u></b>  <b><u>Units C6, C7, C8, C9,</u></b>  <b><u>(aspects of C1,C2&amp;C3) 70 marks</u></b></p>	<ul style="list-style-type: none"> <li>P12.4 – Required practical</li> </ul> <p><b>PPE 2: GCSE Physics Paper 2 (P8 – P15)</b>  <i>(No P11 or 14 on combined science)</i></p>
22/1/24				
29/1/24				
5/2/24				
12/2/24				
26/2/24		<p><b>Revision &amp; Exam Preparation</b></p> <ul style="list-style-type: none"> <li>Revision &amp; review by unit</li> <li>Working Scientifically Skills</li> <li>Maths Skills</li> <li>Required Practicals</li> <li>Examination skills</li> <li>Past paper questions</li> </ul>	<p><b>C10 Sustainable development</b>  <b>Key ideas:</b></p> <ul style="list-style-type: none"> <li>Potable water and water treatment</li> <li><b>Required Practical 14 – Purification of water</b></li> <li>Alternative methods of metal extraction</li> <li>Life cycle assessment and reducing the use of resources</li> </ul>	<p><b>Revision &amp; Exam Preparation</b></p> <ul style="list-style-type: none"> <li>Revision &amp; review by unit</li> <li>Working Scientifically Skills</li> <li>Maths Skills</li> <li>Required Practicals</li> <li>Examination skills</li> <li>Past paper questions</li> </ul>
4/3/24				
11/3/24				
18/3/24				
25/3/24				
15/4/24		<p><b>Revision &amp; Exam Preparation</b></p> <ul style="list-style-type: none"> <li>Revision &amp; review by unit</li> <li>Working Scientifically Skills</li> <li>Maths Skills</li> <li>Required Practicals</li> <li>Examination skills</li> <li>Past paper questions</li> </ul>	<p><b>Revision &amp; Exam Preparation</b>  <b>GCSE Examination Season.</b></p>	
22/4/24				
29/4/24				
6/5/24				
13/5/24			<p><b>Revision &amp; Exam Preparation</b>  <b>GCSE Examination Season.</b></p>	
20/5/24				
3/6/24				
10/6/24				
17/6/24				
24/6/24				
1/7/24				
8/7/24				
15/7/24				