

**Year 11 Long Term Scheme of Learning 2023-24**  
**Combined Science – Foundation 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>P10.5 – 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</b> <b>Units C1, C2, C3, C4, C5 only 70 marks</b>	<b>PPE 1: GCSE Physics Paper 1 (P1 – P7)</b>		
6/11/23					<b>C7 'Organic Chemistry' -Key ideas:</b> <ul style="list-style-type: none"> <li>Alkenes (Cracking)</li> <li>Combustion of fuels</li> </ul>	<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>
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> <li>B7.2 Required Practical recap- Sampling – Completed in Summer</li> <li>B7.3 Waste management</li> </ul>	<b>C9 Atmosphere - Key ideas:</b> <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>	<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>P12.3 – Reflection &amp; refraction</li> <li>P12.4 – More about waves</li> <li>P12.4 – Required practical</li> </ul>		
8/1/24						
15/1/24						
22/1/24						
29/1/24						
5/2/24						

**Year 11 Long Term Scheme of Learning 2023-24**  
**Combined Science – Foundation Tier**

12/2/24		<ul style="list-style-type: none"> <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>	<p><b>PPE 2: GCSE Physics Paper 2 (P8 – P15)</b>  <i>(No P11 or 14 on comb science)</i></p>
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 13– Purification of water</b></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></p>	
22/4/24				
29/4/24				
6/5/24				
13/5/24			<p><b>Revision &amp; Exam Preparation</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				