

KS5 Curriculum: A Level Physics 2024-2025

	Year 12		Year 13	
	Knowledge and skills	Enrichment	Knowledge and skills	Enrichment
Cycle 1	<ul style="list-style-type: none"> <li>• <b>1 Measurements and their errors</b></li> <li>• <b>2 Particles and radiation</b></li> <li>• <b>4 Mechanics and radiation</b></li> </ul> <p><b>Required practicals 3, and 4</b></p> <p><u>Assessments:</u>  <b>Mid-Cycle:</b> Topic assessments on material covered in modules 1, 2, and 4</p> <p><b>End of Cycle:</b> Longer assessment covering content from modules 1, 2 and 4.</p>	Visit to a university/ research centre or similar (dependent on availability)	<ul style="list-style-type: none"> <li>• <b>Review of Year 12 content</b></li> <li>• <b>7 Fields and their consequences</b></li> <li>• <b>8 Nuclear Physics</b></li> </ul> <p><b>Required practicals 9, 10, 11, and 12</b></p> <p><u>Assessments:</u>  <b>Mid-Cycle:</b> Topic assessments on material covered in modules 7 and 8</p> <p><b>End of Cycle:</b> Longer assessment on all topics.</p>	British Physics Olympiad Challenge  By invitation: BPhO Round 1  (Possibility of joining Yr 12s if not attended in previous year)
Cycle 2	<ul style="list-style-type: none"> <li>• <b>3 Waves</b></li> <li>• <b>5 Electricity</b></li> </ul> <p><b>Required practicals 1, 2, 5, 6</b></p> <p><u>Assessments:</u>  <b>Mid-Cycle:</b> Topic assessments on material covered in modules 3 and 5</p> <p><b>End of cycle:</b> Mock exam papers (AS Paper 1)</p>	Visit to local engineering firm (e.g. GE Aerospace) (dependent on availability)	<ul style="list-style-type: none"> <li>• <b>Review of Year 12 content</b></li> <li>• <b>Review of Year 13 content</b></li> <li>• <b>Tailored topic reviews</b></li> </ul> <p><u>Assessments:</u>  <b>Mid-Cycle:</b> Topic assessments on material covered in modules 1, 2, and 4</p> <p><b>End of Cycle:</b> Longer assessment on all topics.</p>	(Possibility of joining Yr 12s if not attended in previous year)
Cycle 3	<ul style="list-style-type: none"> <li>• <b>6 Further mechanics and thermal physics</b></li> <li>• <b>Option module, any one of: Astrophysics, Medical physics, Engineering physics, Turning points in Physics, or Electronics</b></li> </ul> <p><b>Required practicals 7 and 8</b></p> <p><u>Assessments:</u>  <b>Mid-Cycle:</b> Topic assessments on material covered in module 6 and the option module.</p> <p><b>End of cycle:</b> Mock exam papers (AS Paper 2)</p>	Article reading and review	<p><b>Revision &amp; Exams</b></p> <p><b>Paper 1 – Modules 1-5 &amp; 6.1 (Periodic motion)</b></p> <p><b>Paper 2 – Modules 7, 8 and 6.2 (Thermal Physics)</b></p> <p><b>Paper 3 – Practical skills and data analysis, and optional module</b></p>	