KS5 Curriculum: A Level Physics 2024-2025

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|  | Year 12 | Year 13 |
|  | Knowledge and skills | Enrichment | Knowledge and skills | Enrichment |
| Cycle 1 | * **1 Measurements and their errors**
* **2 Particles and radiation**
* **4 Mechanics and radiation**

**Required practicals 3, and 4** Assessments:**Mid-Cycle:** Topic assessments on material covered in modules 1, 2, and 4**End of Cycle:** Longer assessment covering content from modules 1, 2 and 4. | Visit to a university/ research centre or similar (dependent on availability) | * **Review of Year 12 content**
* **7 Fields and their consequences**
* **8 Nuclear Physics**

**Required practicals 9, 10, 11, and 12**Assessments:**Mid-Cycle:** Topic assessments on material covered in modules 7 and 8**End of Cycle:** Longer assessment on all topics.  | British Physics Olympiad ChallengeBy invitation: BPhO Round 1(Possibility of joining Yr 12s if not attended in previous year) |
| Cycle 2 | * **3 Waves**
* **5 Electricity**

**Required practicals 1, 2, 5, 6**Assessments: **Mid-Cycle:** Topic assessments on material covered in modules 3 and 5**End of cycle:** Mock exam papers (AS Paper 1) | Visit to local engineering firm (e.g. GE Aerospace)(dependent on availability) | * **Review of Year 12 content**
* **Review of Year 13 content**
* **Tailored topic reviews**

Assessments:**Mid-Cycle:** Topic assessments on material covered in modules 1, 2, and 4**End of Cycle:** Longer assessment on all topics.  | (Possibility of joining Yr 12s if not attended in previous year) |
| Cycle 3 | * **6 Further mechanics and thermal physics**
* **Option module, any one of:**

**Astrophysics, Medical physics, Engineering physics, Turning points in Physics, or Electronics****Required practicals 7 and 8**Assessments: **Mid-Cycle:** Topic assessments on material covered in module 6 and the option module.**End of cycle:** Mock exam papers (AS Paper 2) | Article reading and review | **Revision & Exams** **Paper 1 – Modules 1-5 & 6.1 (Periodic motion)****Paper 2 – Modules 7, 8 and 6.2 (Thermal Physics****Paper 3 – Practical skills and data analysis, and optional module** |  |