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 Challenge  By 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** |  |