



Science Department Curriculum Plan A Level Physics September 2023

Curriculum Intent

A Level Physics will enable students to develop:

- *essential knowledge of different areas of the subject and how they are linked*
- *competence in a variety of practical, mathematical and problem-solving skills*
- *a deep understanding of scientific methods*
- *interest in and enthusiasm for the subject*
- *an understanding of how society makes decisions about scientific issues*

	Autumn Term	Spring Term	Summer Term
Year 12 Content	Working as a Physicist Mechanics Materials Electric Circuits (start)	Electric Circuits (finish) Waves + Particle nature of light Further Mechanics	Gravitational Fields Electric fields
Year 12 Skills	Required Practicals covered: <ul style="list-style-type: none"> • core practicals 1, 2, 3, 4, 5 	Required Practicals covered: <ul style="list-style-type: none"> • core practicals 2, 3, 6, 7, 8, 9, 10 	Required Practicals covered: <ul style="list-style-type: none"> • core practical 11
Year 12 Key Points	Intro to Physics assessment end of Sept 2023 Interim block tests on mechanics, materials.	Interim block tests on electric circuits, waves, further mechanics January Mock exam on working as a physicist, mechanics, electric circuits and materials.	June Mock exam including working as a physicist, mechanics, materials, circuits, waves and further mechanics



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Year 13 Content	Magnetic fields Nuclear and Particle Physics Thermodynamics Space	Nuclear Radiation Oscillations	Revision and consolidation Exam technique / skills development
Year 13 Skills	Required Practicals covered: <ul style="list-style-type: none">core practicals 12, 13, 14	Required Practicals covered: <ul style="list-style-type: none">core practicals 15, 16 Revision and Exam Technique	Required Practical check and CPAC coverage analysed with additional skill area pieces completed where necessary. Revision and Exam Technique
Year 13 Key Points	Interim block tests on Magnetic fields, Nuclear and Particle Physics; Thermodynamics & Space (combined test) October 2023: Mock exam - Year 12 work plus magnetic fields, nuclear and particle Physics Cultural capital trip: CERN October 2023; to support Particle Physics module and Working as a Scientist	Interim block tests on Nuclear Radiation, Oscillations February 2024: Covering entire curriculum plus practical skills (two papers)	External exams: June 2024 - 3 papers