



"An extremely enjoyable and interesting course in which I learned something I never knew before in every lesson."

6th Form Student

Entry Requirements

A minimum of grade 4 in Maths and an English plus at least 3 other GCSEs at grade 5

Subject Specific Requirements

Grade 6 in Physics / Combined Science and Grade 6 in Maths

About the Course

Physics A is split into six modules, and combined with the Practical Endorsement, constitutes the full A Level.

The modules can be summarised as:

- Module 1: Development of practical
- Module 2: Foundations of Physics
- Module 3: Forces and Motions
- Module 4: Electrons, waves and photons
- Module 5: Newtonian world and astrophysics
- Module 6: Particles and medical physics

The Practical Endorsement is reported separately as a Pass/Fail. It is a requirement for students to show competence in practical skills in a physics context. They will complete a series of practical activities over two years to gain a pass.

Assessment

Module 1: Development of practical skills - this module underpins the whole of the specification, and covers the practical skills that students should develop throughout the course. The practical skills in this module can be assessed within written examinations and (for A Level only) within the Practical Endorsement.

Module 2: Foundations in Physics : covering concepts required throughout the remaining modules.

Module 3 & 4: AS Topics (Motion, Electrons Waves & Photons)

Module 5 & 6: A Level Topics (Nuclear Physics, Fields, Oscillating Motion)

At A Level:

A Level Paper 1 assesses the content from Modules 1,2,3 and 5

A Level Paper 2 assesses the content from Modules 1,2,4 and 6 plus and material appropriately flagged within the specification from Modules 3 and 5

A Level Paper 3 assesses the content from Modules 1 to 6.

Future Applications

A-level Physics, in combination with Maths, is required for entry to higher education courses in the Physical Sciences and Engineering. Degrees in these subjects can, lead to a wide range of careers in areas that include Applied Physics, Astrophysics, Geophysics, Materials Technology, Forensic Science, Engineering, Meteorology and Medical Physics. Physics A-Level is also good for intended careers in Medicine, Mathematics and Computing

Alumni

Marcus - Engineering Apprenticeship, Rolls Royce
Harry - Computer Systems Engineering, Bath
Tom - Law, Nottingham
Darion - Mathematics, Oxford

Josh - Aeronautical Engineering, Loughborough
Sam - Philosophy, Politics & Economics, Oxford
Jake - Aeronautics & Astronautics, Southampton
Fergus - hysics, Birmingham