

Physics: A-level (Awarding Body AQA)

ENTRY REQUIREMENTS

We expect students to have a grade 6 or better in GCSE Physics or GCSE Combined Science. We require students to have at least a grade 5 in GCSE English Language and at least a grade 6 in GCSE Maths.

It is desirable for students studying A-level Physics to also study A-level Mathematics.

CONTENT

First Year

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and energy
- Electricity

Second Year

- Further Mechanics
- Thermal Physics
- Fields and their consequences
- Nuclear Physics
- Option Topic: Astrophysics

You will sit three exams at the end of Year 13. Paper 1 covers the first-year topics and Further Mechanics. Paper 2 covers content from the second year with an expected knowledge of the first-year topics. Paper 3 will assess your application of knowledge to practical tasks and content from the option topic.

PROGRESSION

Physics is a great choice of subject for students who want a career in Technology, Engineering, Architecture, Materials Science, Medicine and Veterinary Science. It is also good preparation for a wide range of careers such as Research And Development, Business, Law, Education and Environmental Science. By studying A-level Physics it keeps the door open to just about anything!

GENERAL COMMENTS

Physics has no limits – everything in your life, on this planet, other planets, to the far reaches of the universe and beyond is in a Physics job description. A physicist invented the World Wide Web and it's hard to imagine a world without it. Physicists are constantly finding new things – this makes it a very interesting and challenging subject.



Having enjoyed Physics at GCSE level, it was a natural decision for me to continue studying the subject at A-level. I find Physics fascinating and believe it provides a wealth of real-world applications, fuelling my natural intuition into how the world works.

The course gives a great insight into cutting-edge Physics, developing ideas from the GCSE syllabus, as well as introducing new ones, frequently sparking engaging discussions about concepts up to and beyond degree-level Physics. After Sixth Form, I would like to study Engineering, furthering my knowledge of Physics and enabling me to apply this knowledge to have a positive impact on the world.

UCHENNA ANYADIEGWU

