

Physics

A Level: Level 3

This Course

Throughout this course, you will build on your knowledge of radiation, waves and electricity. You will learn about nuclear physics, mechanics and thermal physics as well as astrophysics. In Year 13, you will be expanding your understanding of these areas by linking it to different professions; medical, engineering and astrophysics.

Why Physics?

As an integral part of the A-level Physics course you will have the opportunity to develop a range of practical skills highly in demand among employers; planning investigations, problem solving, collecting precise/accurate data and interpreting results mathematically to allow valid conclusions to be drawn.

Physics has natural links with all other sciences such as Chemistry, Biology and Psychology, as well as Physical Education/ Sport, A level Mathematics and Geography.

Students may go on to study and gain employment in the following sectors - Computer Science, Biotechnology, Forensic Science, Medicine, Sports Sciences, Engineering, Mathematics or Natural Science for example. You may also combine Physics with non- scientific subjects such as English and Psychology, but should definitely take A-level Mathematics.

What's expected from me?

We expect enthusiasm, personal organisation and dedication. You need to demonstrate that you are keen to learn, to make progress and to be actively involved in all aspects of the course as well as the wider Science department. You will need to plan ahead to meet deadlines, be independent in expanding the breadth and depth of your knowledge and be pro-active in identifying areas for development. You should also be simultaneously taking A-Level Mathematics as the content in Physics is heavily dependent on a solid comprehension of A-Level Mathematics.

Entry requirements: students should have a Grade 6 or above in GCSE Physics, or 6-6 or above in GCSE Combined Science. A Grade 6 or better in GCSE Mathematics is also required, as well as a Grade 5 in GCSE English.