

# PHYSICS

## WHY STUDY THIS COURSE?

Physics is a challenging and engaging subject. It develops the fun, analytical and thinking skills that will be necessary in all walks of life. Physics is one of the most highly regarded courses that can be studied at A' level and as such is an excellent addition to your academic profile.

## COURSE DETAILS

**Qualification:** A' level Physics

**Awarding Body:** OCR

**Entry Requirements:** 5 GCSE grades 4-9, including English Language. Maths grade 6, plus GCSE Physics grade 6 OR Science Trilogy 6,6

Our students who have studied Physics have found this a superb stepping stone to studying a diverse range of subjects at university including Natural Sciences at Cambridge, Geophysics, Medicine or Engineering.

## COURSE STRUCTURE & ASSESSMENT

Throughout the two years at A' level, students will gain the necessary practical skills to complete the course as well as study a range of topics including: motion, forces in action, work and energy, electrical circuits, waves, simple harmonic motion, quantum physics, Newton's laws and momentum, circular motion and oscillations, thermal physics, electric and magnetic fields, nuclear physics, medical imaging and modelling the universe.

There is a large mathematical content to the course and at every stage mathematics is used to describe the nature of the physical world. Equations are used throughout the course to represent the relationships between different phenomenon as we build up an understanding of cause and effect within the universe. The ability to use and manipulate these equations becomes a fundamental skill which is continually developed.

