

## Physics

The aim of the A Level Physics course is to enable students to develop their interest in, and enthusiasm for Physics including progressing to higher education and longer term careers using the subject.

Students will learn to appreciate how society makes decisions about science related issues and how Physics contributes to the success of the economy, industry and society. They will also develop and demonstrate a deeper appreciation of the skills, knowledge and understanding of different areas of Physics and how these areas relate to each other.

Students should aim to develop a holistic view of Biology, Physics and Chemistry as separate subjects but also science as a whole discipline through thorough study of the units involved. This qualification can be used to pursue a career in Medicine, Research, Engineering, Teaching, Forensics, Sport, Aerodynamics and so on. Physics combines well with other Sciences, Psychology, Mathematics, Mechanics and Product Design.

### ASSESSMENT and CONTENT

At AS Level there are two taught components, each accounting for 50% of the AS grade, these are examined at the end of the year in two 70 mark examinations. Both papers will assess practical skills with at least 10% of the paper also assessing KS5 mathematical skills.

Component 1: Breadth in Physics (1hr 30 mins)  
Component 2: Depth in Physics (1hr 30 mins) - 50%

At A Level there are three components. Each will assess practical skills and mathematical skills along with the content highlighted below:

Component 1: Modelling Physics (2hrs 15 mins) - 37%  
Component 2: Exploring Physics (2hrs 15 mins) - 37%  
Component 3: Unified Physics (1hr 30 mins) - 26%

### *The course requirements...*

*Grade B/7 or higher in both Core and Additional GCSE Science or Separate GCSE Physics Grade B and Grade B/6 or higher in GCSE English and Mathematics. If more science subjects are being taken then students require a Grade B/7 or higher in Mathematics and English GCSE.*