

<h1>Physics</h1>	
Exam Board	AQA
Course Entry Criteria	A in Physics or (A in Core and Additional Science)
Essential skills	Physics requires strong analytical, practical and problem solving skills, together with the ability to communicate scientific ideas and concepts. You will need to have strong mathematical skills, the ability to manipulate algebra and analyse data. The content builds upon the topics studied at GCSE and prepares students for university study.
Year 12	<p>The purpose of this course is to make physics exciting and relevant for everyone, through a selection of contemporary content and a range of delivery modes; it sets physics in a variety of contexts, illustrating connections with everyday life, people, places and cultures; and rewards students for initiative and commitment and allows them to develop their own interests.</p> <p>In year 12 the following topics are studied: 1. Measurements and their errors; 2. Particles and radiation; 3. Waves; 4. Mechanics and materials; 5. Electricity.</p>
Year 13	<p>In year 13 students continue their studies following the core topics; 6.1. Further mechanics; 6.2. Thermal physics; 7. Fields and their consequences; 8. Nuclear physics. In addition there are a range of options. We currently study Astrophysics as the option. This qualification is linear, which means that students will sit all the A-level exams at the end of their A-level course in year 13.</p> <p>The A level Assessment is via three 2 hour papers. Paper 1 covers topics 1-6.1; Paper 2 covers topics 6.2 – 8, (assuming knowledge of the topics 1 - 6.1. Both of these papers carry 85 marks and carry a mixture of long, short and multiple choice questions. Paper 3 examines data handling and practical work in addition to assessing the optional topic. This paper carries 80 marks and is assessed via short and long answer questions. There is no longer any coursework contributing to the assessment grade, however, practical skills are assessed by teachers (as a separate practical endorsement) and will be reported separately, alongside the qualification grade on your certificate.</p>
University requirements	<p>Oxbridge A*A*A Russell Group Universities A*A*A to A A B Other Universities A A A to A B B</p>
Related courses and careers	<p>BSc. Degree in Physics, Physical Sciences and other related degree courses. Recognised as a facilitating subject by Russell Group Universities for the following courses: Architecture, Biology, Chemistry, Computer Science, Engineering, Geology, Mathematics, Ophthalmic Optics, Surveying and Teaching. Qualifications in physics offer a variety of career paths ranging from research to teaching to business and finance for further details please go to: http://www.iop.org/careers/directions/index.html</p>
Other Details	<p>The specification is AQA 7408:</p> <ul style="list-style-type: none"> • It is assessed by examination only • It is linear, with assessment in the summer series of year 13 • It has practical skills assessed by teachers (practical endorsement) and reported separately, alongside the qualification grade on the certificate • It has specified practical work that must be undertaken by learners in order that they are suitably prepared for the written examinations • Mathematical skills are assessed with a weighting of 40% across each series