

Physics

Subject Information Sheet

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| Course Title: | Physics |
| Subject: | Physics |
| Qualification: | GCE A level |
| Exam Board: | OCR Specification A |
| General Course Description | <p>Students who choose Physics will find themselves asking fundamental questions about our world, then trying to answer them by observing and experimenting. These questions might include</p> <ul style="list-style-type: none"> • How did the universe begin? • What are the basic building blocks of matter? <p>The course consists of 6 modules taught over 2 years. There are also numerous practical activities required for students to gain the practical endorsement and many opportunities to use practical experiences to link theory to reality.</p> <p>The subject content is designed to be interesting and relevant providing a solid foundation for studying physics related subjects to a higher level.</p> |
| Course Content and Teaching Units | <p>Content is split into six teaching modules:</p> <p>Module 1 – Development of practical skills in physics</p> <p>Module 2 – Foundations of physics</p> <p>Module 3 – Forces in action</p> <p>Module 4 – Electrons, waves and photons</p> <p>Module 5 – Newtonian world and astrophysics</p> <p>Module 6 – Particles and medical physics</p> |

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| Entry Requirements | Grade 6 or higher in GCSE Triple physics or 7 in additional or further additional Science plus grade 6 in GCSE Maths. |
| Assessment | <p>The course is assessed by written examinations using a variety of assessment styles so you can confidently engage with the questions, including multiple choice, short and long answer questions:</p> <p>A level (H556): Three exams in Y13 (two 2 hour 15 minute papers and one 1 hour 30 minute paper)</p> <p>The students are also assessed on their practical skills through the practical endorsement.</p> |
| Financial Information | There is no financial requirement to this course but there will be opportunities for you to purchase a revision guide if you wish to. |
| Progression Opportunities | A Physics A Level is a highly desirable qualification for both universities and employers, and can lead to a multitude of courses including physics, engineering, medicine, finance, mathematics and chemistry. The problem solving skills needed to be successful in A Level physics are applicable to a wide range of subjects. |
| Further Information about our courses including results | <p>The physics department at KES achieve very good results – last year 85% of A2 students achieved grades A*-B. This puts the physics department results in the top 10% in the country.</p> <p>We also offer exciting enhancement opportunities, including the chance to visit CERN at the end Y12 (this incurs additional cost) and the chance to take part in the Physics Olympiad.</p> |
| Trips, visits and extra-curricular | <p>CERN: In Y12 students have the opportunity of a life time to visit the international centre for particle physics in Geneva Switzerland.</p> <p>Manchester University: Student also participate in the Physics Olympiad and trips such as one off days to Universities.</p> |