

Physics

Subject Information Sheet

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 universe, then trying to answer them by observing and experimenting. These questions 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>

Entry Requirements	Grade 6 or higher in GCSE Physics and GCSE Mathematics or Grade 7-7 in Combined 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 which is awarded as a separate qualification.</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 consistently achieve very good results. In 2019 45% of our A2 students achieved a grade A* or A. This puts the physics department results in the top 25% in the country.</p> <p>Our students have also achieved considerable success in national competitions such as the Physics Olympiad, with one student in 2019 scoring in the top 100 students entering nationally.</p>
Trips, visits and extra-curricular	<p>CERN: In Y12 students have the opportunity of a lifetime to visit the international centre for particle physics in Geneva Switzerland.</p> <p>Students can also participate in the Physics Olympiad and other trips such as one off visits to Universities.</p>