

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, 2020 and 2021 at least 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	CERN: In Y12 students have the opportunity of a lifetime to visit the international centre for particle physics in Geneva Switzerland (this running of this trip is dependent upon current travel restrictions). Students can also participate in the Physics Olympiad and other trips such as one off visits to Universities.