

Course Title:	A Level Physics
Title of qualification to be gained (if any):	GCE AS 7407 GCE A-Level 7408
Awarding Body (if any):	AQA
We follow the AQA course. This is a course that relates closely to our engineering course with a significant amount of practical work to support theory.	
<p>Recommended Essential materials:</p> <p>AQA A Level Physics Year 1 Student Book Jim Breithaupt, Oxford University Press</p> <p>AQA A Level Physics Year 2 Student Book Jim Breithaupt, Oxford University Press</p> <p>CGP New 2015 A-Level Physics: AQA Year 1 & AS Complete Revision & Practice</p>	

Course Aims
Physics looks at the fundamental principles that explain how the Universe works, from the development of celestial bodies to how to keep aircraft in the air. Many people think that Physics is challenging, but once you're able to see the beauty of the world in numbers, you're able to harness the power of Physics and change the world around you. We aim to inspire students, nurture a passion for Physics and lay the groundwork for further study in Science or Engineering.
Course Description
<p>AS subject content</p> <p>Particles and radiation, Waves, Mechanics and materials and Electricity.</p> <p>A-Level subject content</p> <p>All of the AS topics plus further mechanics, thermal physics, fields and their consequences, nuclear physics and the optional unit of engineering physics.</p> <p>Students also have to complete twelve required practicals during the two years, which they are assessed on in the exams.</p>
Entry Requirements
Students choosing A-level Physics will need to have gained a minimum of a B at GCSE Physics or 2 B grades in double award Science, and B at GCSE Mathematics.

Teaching and learning methods used and assessment

Students will learn the theory and then have rich experiences that enable them to apply the theory via practical work, discussions and independent study and group project work.

Students will be assessed in a variety of ways: through group discussion, project work, feedback on tasks and regular tests.

Suggested progression routes

After finishing the course students can follow two main routes: University or an apprenticeship.

Pre-course reading/preparation

Students are advised to recap their understanding of GCSE Physics before starting the course. They can access the GCSE Physics specification from the AQA website.

Enrichment

Students can undertake physics projects alongside their classwork, enabling them to apply what they have learnt in the class to real-life engineering problems. Students that excel in their projects will have the opportunity to submit their work for a Gold Crest award and then attend the Big Bang Fair, a celebration of Science and Engineering.