Course Description

Physics

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Module 1 - Development of practical skills in Physics
Skills of planning, implementing, analysis and evaluation

Module 2 - Foundations of Physics
Physical quantities and units, scalars and vectors, measurements

Module 3 - Forces and motion
Motion, forces in action, work, energy and power, materials, Newton's laws of motion and momentum

Module 4 - Electrons, waves and photons
Charge and current, energy power and resistance, electrical circuits, waves, quantum physics

Module 5 - Newtonian world and astrophysics
Thermal physics, circular motion, oscillations, gravitational fields, astrophysics

Module 6 - Particles and medical Physics
Capacitors, electric fields, electromagnetism, nuclear and particle physics, medical imaging

Assessment: The Physics A level qualification is assessed through three written examinations at the end of Year 13. There are two written examinations for AS year. Students must also complete a Practical endorsement which is reported separately as Pass or Fail.

Entry Criteria

Separate Science. Students must have a Grade 7 in the Science they wish to study with at least a Grade 6 in the others. Students must have a Grade 6 in Mathematics.

Combined Science. Students must have a Grade 7,7 in Combined Science with at least a Grade 6 in Mathematics.

At the start of the year, all students will sit a 'Head Start Test' to establish a baseline for progress monitoring and to confirm they meet the course requirements.

Exam Board: OCR
Specification link: https://www.ocr.org.uk/qualifications/as-and-a-level/physics-a-h156-h556-from-2015/specification-at-a-glance/