



Physics A Level (Edexcel)

Why study this subject?

Physics encompasses the study of superclusters of galaxies all the way down to the behaviour of matter at the smallest level. It underpins everything we know about the world and is the basis on which we build our knowledge of Chemistry and Biology. Studying Physics helps you to understand the way the world works at the most fundamental level.

You can find physicists working in hugely varied fields: alternative energy, engineering, game design, medicine, law, business, finance, education, music and television, and of course on the cutting edge of technology, exploring new frontiers of knowledge.

Entry Requirements

Please see the entry requirements page on the school website.

Content

<p>In Year 12 students study five modules</p> <p>Module 1 – Working as a physicist Practical skills in Physics</p> <p>Module 2 – Mechanics</p> <p>Module 3 – Electric Circuits</p> <p>Module 4 – Materials</p> <p>Module 5 – Waves and the Particle Nature of Light</p>	<p>In Year 13 students will study eight additional modules (many are shorter than the Year 12 modules)</p> <p>Module 6 – Further Mechanics</p> <p>Module 7 – Electric and Magnetic Fields</p> <p>Module 8 – Nuclear and Particle Physics</p> <p>Module 9 – Thermodynamics</p> <p>Module 10 – Space</p> <p>Module 11 – Nuclear Radiation</p> <p>Module 12 – Gravitational Fields</p> <p>Module 13 – Oscillations</p>
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Assessment

We offer the Edexcel Physics A Level Specification (9PH01). Students sit three examinations papers of varying lengths and have to produce evidence of practical skills attained during the course through the practical endorsement. Students are required to complete all examination papers for the full A Level qualification at the end of Year 13.

Future courses and possible careers

A Level Physics is a highly valued qualification. Only 8% of students nationwide study Physics at A Level. Physics is a challenging area of study, and you will have to work hard, but if you gain good results, having studied Physics will open doors. Even students who decide not to go on to study Physics or Engineering at university will find they gain invaluable problem solving and logic skills. These sorts of abilities are highly valued in many fields including business, technology, law and medicine.