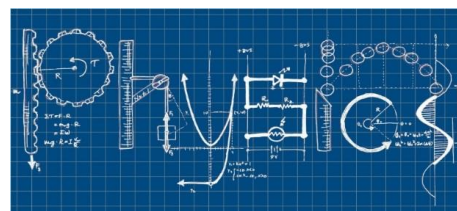


Physics



Exam Board	AQA
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Qualification	GCE A Level
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Entry Requirements	GCSE grade 7 in Physics or grade 77 in Combined Science GCSE grade 6+ in Mathematics
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Content (Outline of Course)	<p>A Level students will cover the following topics Only 1 option topic is chosen to be covered by the class. Topics 1 – 5 will be fully covered in Year 12. Topics 6 – 9 and one option will be fully covered in Year 13.</p> <table border="0"> <tr> <td>Topic 1: Measurements and Errors</td> <td>Topic 7: Fields</td> </tr> <tr> <td>Topic 2: Particles and Radiation</td> <td>Topic 8: Nuclear Physics</td> </tr> <tr> <td>Topic 3: Waves</td> <td>Topic 9: Thermodynamics</td> </tr> <tr> <td>Topic 4: Mechanics and Materials</td> <td>Option 1: Astrophysics</td> </tr> <tr> <td>Topic 5: Electricity</td> <td>Option 2: Medical Physics</td> </tr> <tr> <td>Topic 6: Further Mechanics and Thermal Physics</td> <td>Option 3: Engineering Physics</td> </tr> <tr> <td></td> <td>Option 4: Turning Points in Physics</td> </tr> <tr> <td></td> <td>Option 5: Electronics</td> </tr> </table>	Topic 1: Measurements and Errors	Topic 7: Fields	Topic 2: Particles and Radiation	Topic 8: Nuclear Physics	Topic 3: Waves	Topic 9: Thermodynamics	Topic 4: Mechanics and Materials	Option 1: Astrophysics	Topic 5: Electricity	Option 2: Medical Physics	Topic 6: Further Mechanics and Thermal Physics	Option 3: Engineering Physics		Option 4: Turning Points in Physics		Option 5: Electronics
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Assessment	<p>A Level Physics consists of linear assessments, with all exams at the end of the course in Year 13.</p> <p>In assessments, 40% of the total A Level marks require the use of Level 2 (Higher-tier GCSE) mathematical skills.</p> <p>There will be no internal assessment that leads to marks that contribute towards the A Level grades. Practical work will solely be assessed in the written papers.</p> <p>15% of the total A Level marks will be for practical knowledge and understanding in physics investigations.</p> <p>A separate 'endorsement' of practical work will be assessed by teachers when students carry out required practicals in lessons. This will not be graded.</p> <p>If students pass, it will be reported on their certificate, otherwise it will not be reported.</p> <p>Examinations</p> <p>To achieve an A Level qualification you must sit 3 written papers at the end of Year 13 carried out during the summer term.</p> <p>Each paper is 2 hours.</p> <p>Paper 1, marked out of 85, is 34% of the overall grade. It consists of 60 marks of qualitative questions and 25 marks of multiple questions on topics 1-5 and periodic motion.</p> <p>Paper 2, marked out of 85, is 34% of the overall grade. It consists of 60 marks of qualitative questions and 25 marks of multiple questions on topics 6-9.</p> <p>Paper 3, marked out of 80, is 32% of the overall grade. It consists of 45 marks on data analysis questions and 25 marks on the option topic.</p> <p>Classwork</p> <p>Work in class will be varied and the work will be assessed through class discussion, checkpoint and formal testing, homework booklet activities, additional work and independent study assignments.</p>
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Students will be provided a class workbook for each topic and will work through this workbook completing different activities. These books can also be used as revision aids later in the course.

Class notes will be provided for the students to help structure learning in and out of lessons. These will provide students with basic course notes, sample questions, test yourself questions, puzzles, revision checklists and course specifications.

Students will be provided with a class reading book for each topic and will use this reading book as the source of their course notes. These books can also be used as revision aids later in the course.

Homework

Homework will be set regularly through weekly homework booklets and will be based on previous examination questions of the topics covered in the course to provide an insight into the experimental technique required.

In Year 12, homework tasks will consist of multiple choice questions, longer questions based on classwork and an extension question aimed at A/A* students.

In Year 13, homework will consist of multiple choice questions, longer questions based on classwork, extension questions aimed at A/A* students and revision questions based on work in Year 12.

Careers Guidance

Students who gain a qualification in A Level physics tend to gain entry into Higher Education institutions to study a very wide range of courses in faculties of Science, Engineering, Business, Medicine, Law and Electronics, and a variety of combined courses, leading to rewarding and satisfying employment.

Physics is considered by Russell Group universities to be a 'facilitating subject' for many university courses. Most of the successful applicants over the last couple of years to Russell Group universities have offered facilitating subjects for most or all of their A Levels. The Russell Group guide 'Informed Choices' advises pupils wanting to be considered for a Russell Group university to pick two facilitating subjects as part of their A Level mix.

A small number of students prefer to enter the job market direct from Sixth Form.