

PHYSICS

A LEVEL

AQA

Entry Requirements	Trilogy Science 6-6 or 6 in Physics for Triple science. GCSE Maths Grade 5 (Higher) essential, GCSE English Grade 5 desirable
Head of Department or Course Contact	Mrs H Moore
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Brief introduction to subject:

Do you want to keep your options open? Engineering, Accountancy, Law, Medicine and Science careers can all follow from a qualification in Physics. It is an enjoyable and interesting course. There is a practical emphasis, showing the relevance of the subject to everyday life.

Progression to Career/ University Courses:

The specification has been developed for students who wish to progress to higher education or to the world of work, where understanding of physics will be a valuable asset.

Key Points:

The key points of this specification are that:

It allows opportunities for practical work and individual study.

There are opportunities for effective personalised learning, target setting and for differentiated outcomes.

It builds on previous GCSE work.

Year 12

<p><u>Content</u> 1 Measurements and their errors 2 Particles and radiation 3 Waves 4 Mechanics and materials 5 Electricity</p>	<p><u>Assessment</u> Paper 1 What's assessed Sections 1 – 5 Assessed as written exam: 1 hour 30 minutes, 70 marks, 50% of AS Questions 70 marks of short and long answer questions split by topic.</p>
<p>Practical Assessment Practical work is at the heart of physics. Assessment of practical skills at AS is by written exams only. Questions in the papers expect that students have carried out at least the six required practical activities from the syllabus. 15% of the marks in the papers will relate to practical work.</p>	<p>Paper 2 What's assessed Sections 1 - 5 Assessed as written exam: 1 hour 30 minutes, 70 marks, 50% of AS Questions Section A: 20 marks of short and long answer questions on practical skills and data analysis Section B: 20 marks of short and long answer questions from across all areas of AS content Section C: 30 multiple choice questions</p>

Year 13

<p><u>Content</u> 1 Measurements and their errors 2 Particles and radiation 3 Waves 4 Mechanics and materials 5 Electricity 6 Further mechanics and thermal physics 7 Fields and their consequences 8 Nuclear physics</p> <p>Plus one options from:- 9 Astrophysics 10 Medical physics 11 Engineering physics 12 Turning points in physics 13 Electronics</p> <p>Practical Skills A-level grades will be based only on marks from written exams. A separate endorsement of practical skills will be taken alongside the A-level. This will be assessed by teachers and will be based on direct observation of students' competency in a range of skills that are not assessable in written exams. It will be recorded as pass or fail. The 12 recommended practicals will be carried out during the two years of the course.</p>	<p><u>Assessment</u> Paper 1 What's assessed Sections 1 to 5 and 6.1 (Periodic motion) Assessed as written exam: 2 hours, 85 marks, 34% of A-level Questions 60 marks of short and long answer questions and 25 multiple choice questions on content.</p> <p>Paper 2 What's assessed Sections 6.2 (Thermal Physics), 7 and 8 Assumed knowledge from sections 1 to 6.1 Assessed as written exam: 2 hours, 85 marks, 34% of A-level Questions 60 marks of short and long answer questions and 25 multiple choice questions on content.</p> <p>Paper 3 What's assessed Section A Compulsory section: Practical skills and data analysis Section B: Students enter for one of sections 9, 10, 11, 12 or 13 Assessed as written exam: 2 hours, 80 marks, 32% of A-level Questions 45 marks of short and long answer questions on practical experiments and data analysis. 35 marks of short and long answer questions on optional topic</p>
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