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	**Miss H Moore**
Contact E-Mail Address	**hmoore@stedmunds.org**

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.

<table>
<tr><th colspan="2">Year 12</th></tr>
<tr><td><u>Content</u>
1 Measurements and their errors
2 Particles and radiation
3 Waves
4 Mechanics and materials
5 Electricity</td><td><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.</td></tr>
<tr><td>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.</td><td>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</td></tr>
<tr><th colspan="2">Year 13</th></tr>
<tr><td>Content
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

Plus one options from:-
9 Astrophysics
10 Medical physics
11 Engineering physics
12 Turning points in physics
13 Electronics

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.</td><td><u>Assessment</u>
<u>Paper 1</u>
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.
<u>Paper 2</u>
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.
<u>Paper 3</u>
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</td></tr>
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