

2 Specification at a glance

These qualifications are linear. Linear means that students will sit all the AS exams at the end of their AS course and all the A-level exams at the end of their A-level course.

2.1 Subject content

Core content

- 1 Measurements and their errors (page 10)
- 2 Particles and radiation (page 12)
- 3 Waves (page 17)
- 4 Mechanics and materials (page 21)
- 5 Electricity (page 27)
- 6 Further mechanics and thermal physics (A-level only) (page 30)
- 7 Fields and their consequences (A-level only) (page 34)
- 8 Nuclear physics (A-level only) (page 41)

Options

- 9 Astrophysics (A-level only) (page 45)
- 10 Medical physics (A-level only) (page 49)
- 11 Engineering physics (A-level only) (page 54)
- 12 Turning points in physics (A-level only) (page 58)
- 13 Electronics (A-level only) (page 62)

2.2 AS

Assessments

Paper 1	+	Paper 2
What's assessed Sections 1–5		What's assessed Sections 1–5
Assessed <ul style="list-style-type: none">• written exam: 1 hour 30 minutes• 70 marks• 50% of AS		Assessed <ul style="list-style-type: none">• written exam: 1 hour 30 minutes• 70 marks• 50% of AS
Questions 70 marks of short and long answer questions split by topic.		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

2.3 A-level

Assessments

Paper 1	+	Paper 2	+	Paper 3
<p>What's assessed</p> <p>Sections 1–5 and 6.1 (Periodic motion)</p>		<p>What's assessed</p> <p>Sections 6.2 (Thermal Physics), 7 and 8</p> <p>Assumed knowledge from sections 1 to 6.1</p>		<p>What's assessed</p> <p>Section A: Compulsory section: Practical skills and data analysis</p> <p>Section B: Students enter for one of sections 9, 10, 11, 12 or 13</p>
<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 85 marks • 34% of A-level 		<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 85 marks • 34% of A-level 		<p>Assessed</p> <ul style="list-style-type: none"> • written exam: 2 hours • 80 marks • 32% of A-level
<p>Questions</p> <p>60 marks of short and long answer questions and 25 multiple choice questions on content.</p>		<p>Questions</p> <p>60 marks of short and long answer questions and 25 multiple choice questions on content.</p>		<p>Questions</p> <p>45 marks of short and long answer questions on practical experiments and data analysis.</p> <p>35 marks of short and long answer questions on optional topic.</p>