

PHYSICS

Subject title	A-Level Physics
Exam board	AQA
Specification number	7408
Time allowance each week	Year 12 = 4.5 Hours Year 13 = 5 hours
Website	A-level Physics 7408 Specification Specification At A Glance AQA

Topics covered during the course

Year 12

- Measurement and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity

Year 12 Assessment

All work is assessed by terminal examinations consisting of 2 x 1.5 hour exam papers containing a mixture of short answer, long answer and multiple-choice questions.

Year 13 content

- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics
- Engineering physics

Year 13 A-level Assessment

All written examinations are taken in the summer series of Year 13.
Nature of the 3 Papers (our optional topic is Engineering Physics)

Assessments
Paper 1
What's assessed Sections 1 - 5 and 6.1 (Periodic motion)
Assessed • 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.
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Paper 2
What's assessed Sections 6.2 (Thermal Physics), 7 and 8 Assumed knowledge from sections 1 to 6.1
Assessed • 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.
+
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 • 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.

Skills developed during the course

Physics is fundamentally an experimental subject. This specification provides numerous opportunities to use practical experiences to link theory to reality and equip students with the essential practical skills they need.

Skills developed include communication, data analysis, evaluation, working with others, improving own learning and problem solving.

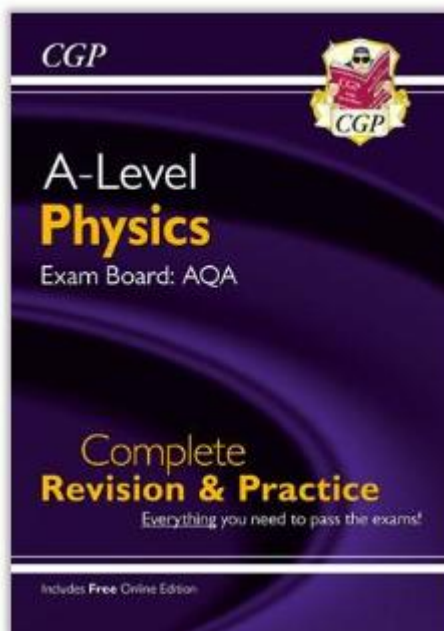
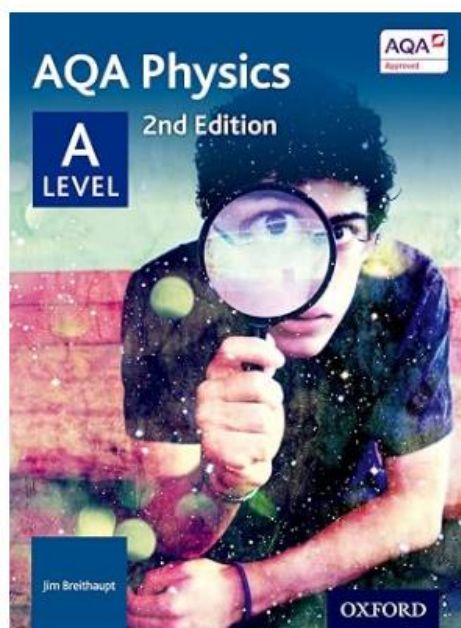
Independent Study Time

Expected time allocation for the subject

4 or 5 hours per week. Pupils are expected to consolidate their learning by practising questions and problem solving, completing set homework, reading their notes via other means such as using a textbook or online resources. Any work, especially exam style questions not completed in a lesson should be completed in independent learning time.

Additional support for the course

Text book: We do have textbooks that are used during lessons. Students may choose to purchase their own and students in receipt of free school meals will receive their own textbook and revision guide.



Websites

[AQA Physics Revision - Physics & Maths Tutor](#) – Physics and Maths Tutor
[Physics Online - YouTube](#)

Additional information about the course

We run a in Year 12 to Diamond Light Particle Accelerator for a Particle Physics Masterclass (occasionally we only receive online tickets). Students have a range of enrichment and super curricular opportunities including entering prestigious competitions, Physics Olympiad, CERN Beamline for Schools and UK Space Design Competition.

Other sources of help

Staff organise revision sessions throughout year 13. Staff are always available to offer help to individual students.