

Physics

Course description

A-level Chemistry is the study of theoretical physics, particle physics and mechanics. It develops both knowledge and practical skills for each of the three areas through theory based lessons and practical skills. During the two year course 12 Required Practical's also form their Practical Endorsement which is assessed as a Pass or Fail.

Course content

Year 1 topics include: Measurements and their errors, particles and radiation, waves, mechanics and materials, electricity.

Year 2 topics include : Further mechanics and thermal physics, fields and their consequences, nuclear physics, medical physics/turning points in physics

Assessment

Paper 1— Topics 1-5 from above.

- Written exam 2 hours, 85 marks in total, 34% of A-Level.
- 60 marks of short and long answer questions and 25 multiple choice questions

Paper 2— Remaining of course content, plus assumed knowledge of all other sections.

- Written exam 2 hours in total, 85 marks in total, 34% of A-Level.
- 60 marks of short and long answer questions and 25 multiple choice questions

Paper 3— Section A: Practical skills and data analysis, Section B: Medical physics/ Turning points in Physics

- Written exam 2 hours in total, 80 marks in total, 32% of A-Level.
- 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.

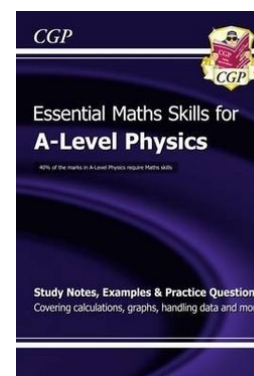
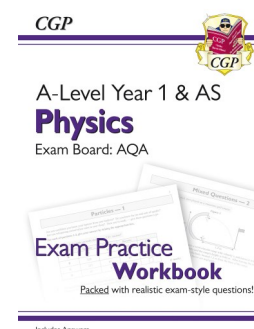
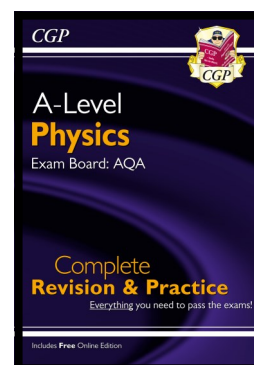
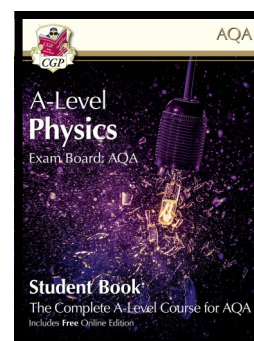
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Recommended textbook / revision guide

Year 12 & 13

- CGP A-Level Physics Exam Board: AQA Student book—The Complete A-Level Course for AQA.
- CGP A-Level Physics Exam Board: AQA Year 1 & 2 Complete Revision & Practice
- CGP A-Level Physics Exam Board: AQA Year 1 & 2 Exam Practice Workbook
- CGP Essential Maths Skills for A-Level Physics

Whilst it is not essential for students to have their own copy of the textbook it would be advantageous for students to have a copy to complement their notes and promote wider reading.



Physics

Future pathways

The subject of Physics leads to a wide variety of different professions. Whilst this is not an exhaustive list it does give you an idea of the wide variety of roles that can be accessed after studying Physics:

- Aerospace engineer
- Architect
- Astronomer/Astronaut
- Civil Engineer
- Medical Physicist
- Nuclear Engineer
- Pathologist
- Applied Physicist
- Biomedical Engineer
- Building services Engineer
- Palaeontologist
- Telecommunications engineer
- Radiographer
- Quantity Surveyor
- Petroleum Engineer
- Automotive Engineer
- Electrical Engineer