



PHYSICS

Level: AS and A-Level

Exam Board: AQA - Specification: 7407/7408

Course description:

The **AS GCE** is a 'stand-alone' qualification which is assessed at a standard appropriate for candidates who have completed a single year of study i.e. between GCSE and A level.

The AS GCE consists of the following areas of study:

1. Measurements & their error
2. Particles & radiation
3. Waves
4. Mechanics & materials
5. Electricity

There are also 6 required practical tasks that must be fully written up by students.

All of which are externally assessed by examination papers. There are two papers both 1½ hours long, with 70 marks available on each paper.

Paper 1 - Short and long answer questions that are split by topic.

Paper 2 - Section A: Short & long answer questions on practical skills & data analysis

Section B: Short & long answer questions from all areas of AS content.

Section C: 30 multiple choice questions.

The **A-Level GCE** qualification is assessed after two years of study and at a standard higher than that required for the AS qualification. There are overlaps with the content of the AS GCE. Additional topics:

6. Further mechanics & thermal physics
7. Fields & their consequences
8. Nuclear Physics

And an optional topic from

9. Astrophysics
10. Medical physics
11. Engineering physics
12. Turning points in physics
13. Electronics

There are also 12 required practical tasks that must be fully written up by students. All of which are externally assessed by examination papers. There are three papers each 2 hours long, with 85 marks available on papers 1 and 2 and 80 marks for paper 3.

Paper 1 - Short, long & multiple choice answer questions on sections 1-5 plus 6.1 (periodic motion).

Paper 2 - Short, long & multiple choice answer questions on sections 6.2 (thermal physics), 7 & 8.

Paper 3 - Short & long answer questions

A: Practical skills & data analysis

B: Option

Entry requirements: GCSE Physics or GCSE Combined Science grade 6 and grade 6 in Mathematics.

Career options: Engineering, Optics, Medicine, Nursing, Physiology, Telecommunications, Electronics, Computing, Transport, Cosmology, Environment.

Full Specification: <http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408>

Cardinal Griffin Sixth Form Centre - Aspire – Believe - Achieve

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