

## AQA A Level Physics

### Why study Physics?

This qualification is invaluable for entry to higher education courses in Engineering, Physical Sciences and Medical Physics, and it is highly desirable for Computing and Architecture. Studying Physics leads to a wide variety of rewarding careers, including roles such as physical scientist, researcher and electronics engineer.

Many physicists also combine their work with the other sciences (Chemistry and Biology) to study things like meteorology (the atmosphere) and geophysics (the structure of the earth).

### What are the entry requirements?

Grade 7-7 in Combined Science.

Grade 7 in Physics (Separate Science).

We would strongly advise that you do not take Physics as your only Science. Students are more likely to succeed on this course when it is taken with at least one of Biology, Chemistry or Maths.

### What will I study?

Learners will study a variety of topics including:

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics
- One option to be studied from: Astrophysics, Medical Physics, Engineering Physics, Turning points in physics or Electronics.

### You will enjoy this course if...

You enjoy Physics and Mathematics.

Physicists ask some big questions, but they specialise in different areas and their work can be varied.

For example, nuclear physicists study the tiniest particles of matter to discover what the universe is made of, whereas astrophysicists study some of the largest things – stars, planets and celestial bodies. So you need to have a keen interest to find out how it all works.

### How will my work be assessed?

The qualification is linear. Students will sit their exams at the end of their A level course.

Paper 1- Topics 1 to 6. Written exam: 2 hours- 85 marks-34% of AS Level

Questions -60 marks of short and long answer questions and 25 multiple choice questions on content.

Paper 2 - Questions on topics 6 to 8 written exam: 2 hours- 85 marks- 34% of AS Level.

Questions - 60 marks of short and long answer questions and 25 multiple choice questions on content.

Paper 3- Section A Compulsory section: Practical skills and data analysis. Section B: Questions on the chosen topic written exam: 2 hours- 80 marks-32% of A-level.