A-level Physics

TRINITY SIXTH FORM ACADEMY

Below you will find some information regarding the GCE OCR Physics course. This is studied as a two year linear course. Please note that there are some specific requirements for accessing this course. If you have any questions about this course or the entry requirements then please speak to us.

What is covered?

This course provides a comprehensive insight into Physics including:

- Skills of planning, implementing, analysis and evaluation.
- Forces and motion.
- Electrical circuits.
- Waves and quantum physics.
- Cosmology (physics of space).
- Magnetism.
- Medical imaging.

What does the course involve?

You will develop your Physics skills and knowledge through exploring a range of key areas to gain an understanding of the link between theory and experiment. You will develop mathematical skills and discover how to apply these in a range of situations. You will also have an opportunity to visit local universities to see physics in action at relevant taster days. It is essential that students taking Physics also study Maths.

This course will help you to understand the importance of Physics as a human endeavour that interacts with social, philosophical, economic and industrial matters. Undertaking this course will support access to a wider range of higher education courses such as medicine or engineering.

How is the course examined?

The course is examined through three exam papers at the end of the course; one on mechanical physics, one on electrical and particle physics and one synoptic paper. The exams overall will be six hours.

What about coursework?

Practical endorsement replaces coursework. Students will complete and be teacher-assessed on a set of practical activities.

Quick course facts

You should have a minimum of five GCSEs graded at level 4 or above, including English Language and Mathematics as well a level 6 or higher in combined GCSE science or level 6 or higher for the single GCSE science selected at A-Level.

Students who choose to study A-level Physics must also study A-level Mathematics.

There are five hours of teaching per week, plus tutorial and home based study time.

This course is aimed at those with a genuine interest in all aspects of Physics.

You will develop your mathematical and problem solving abilities.