COWLEY

SIXTH FORM COLLEGE

A-LEVEL

PHYSICS

Overview

The first year of the A-Level Physics course begins with an introduction to the weird and wonderful world of Particles and Quantum Physics. This is combined with areas of Physics that you are already familiar with from GCSE Physics such as Forces and Waves.

In your second year, you will develop your understanding further, so you'll actually understand what $E=mc^2$ is all about. In Astrophysics, you will find out how to estimate the age of the Universe and how we can detect planets outside of our solar system.

You will be taught by an enthusiastic and caring team who have a wealth of experience in teaching Physics.

You will enjoy a wide range of learning experiences, including practical work that will support and develop the theoretical ideas that you will study, research tasks and presentations: all of which will prepare you for further study beyond Sixth Form and the world of work.

Outside the classroom

A-Level Physics students have the opportunity to visited Daresbury Laboratories to develop their understanding of some of the key ideas of the course (as well as some of the deeper concepts in Physics).

A growing number of our students have been successful in gaining a place on the prestigious Nuffield research placement scheme where they have had the opportunity to experience what it is like to complete a project like a real scientist in a university or industry.

Equipment that you will need

Basic stationery, including: a pen, pencil, ruler and a scientific calculator.

Most importantly, students require an inquisitive mind!

"The small class sizes mean that you get more time with your teachers.

The topics that I am studying in Physics are quite challenging, but really enjoyable.

I am planning to study Nuclear Engineering at university.

Progression

Past Physics students have gone on to a range of courses at degree level, including: Physics, Engineering, Astrophysics, Geophysics and Architecture.