

# A Level Physics

## The Course

Physics is a subject of enormous breadth. It encompasses the whole of the physical world from fundamental particles to supermassive black holes, from the beginning of time to the ultimate fate of the universe.

The course is challenging and involves a fair amount of mathematics at times but it is also an exciting journey and you'll find a vast array of career opportunities open to you at the end of it.

## The Content

Much of our work continues the exploration of electricity, mechanics and waves that we began in Key Stage 4. However, we also introduce you to some of the deeper wonders of the universe as we explore fundamental particles and quantum phenomena. We'll be finding answers to such questions as: what happens when matter meets antimatter? What are quarks? How can two light sources combine to make darkness? How do optical fibres work? How can strings produce musical notes? What is a superconductor?

You will be developing your practical skills throughout the course as you work your way through a number of set practical experiments. You will get to use a lot of equipment which you may not have used before such as lasers, frequency generators and oscilloscopes. You will even be allowed to use the radioactive sources.

## Assessment

100% examined. There is no coursework.

## Subject entry requirements

GCSE Combined Science grade 6 - 6 or above or GCSE Physics grade 6 or above, plus GCSE Maths grade 6 or above.

## Pathways/Careers

Students go on to successfully study or work in many fields, including:

Physics	Architecture	Transport	Medical Physics
Games Design	Telecommunications	Finance	Accountancy
Astrophysics	Astronomy	Particle Physics	Geophysics
Meteorology	Nuclear Power	Teaching	Engineering
Alternative Energy			