# Physics

# Why this course is right for you

Studying Physics gives an understanding of some of the basic principles of the universe. Physics seeks to develop your understanding from the smallest point to our largest concept. The complexities of the very large (cosmology) and the very small (quantum) are fascinating and often surprising.

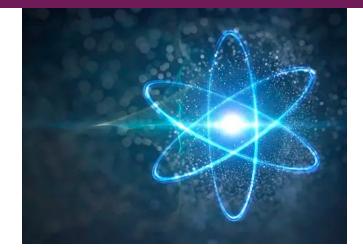
You should have developed an interest in the world around us and how mathematics explains the fundamental concepts of why things happen.

## **Beyond A Levels**

Physics is a key A-Level requirement for several university courses including Physics and Engineering. In addition, A-Level Physics is a highly regarded qualification for any university course, apprenticeship and future career.

# **Going further**

There are many resources available to extend your Physics knowledge prior to beginning 6th Form. Try watching The secrets of quantum physics available on BBC iplayer.



## **Course Content**

Exam board: AQA Head of Department/Faculty: Ben Millett

#### Year 1 Topics

- •1 Measurements and their errors
- 2 Particles and radiation
- 3 Waves
- 4 Mechanics and materials
- 5 Electricity

#### Year 2 Topics

- 6 Further mechanics and thermal physics
- •7 Fields and their consequences
- 8 Nuclear physics
- •9 Astrophysics

### Assessment:

Paper 1: 34% Paper 2: 34% Paper 3: 32%

## **Additional Experiences**

Trip to CERN (Geneva) is planned to visit the large hadron collider.

## **Subject Entry Requirements**

Grade 6 GCSE Chemistry or Grade 6-6 GCSE Combined Science and Grade 6 in Maths.

"We cannot solve our problems with the same thinking that created them."

Albert Einstein