

# A – Level Physics

## A-Level Physics Overview:

Physics is the study of how the Universe works. When you chose to study A-Level Physics you will study everything from tiny subatomic particles quarks and leptons which are the smallest fundamental building blocks of nature, to the origins and evolution of our vast and wondrous Universe, and everything in-between. Physics is the study of the natural laws that govern the way everything around us works, and students who study it will gain an insight into the deep relationship between maths, science and the world around us. The knowledge you gain about the laws of nature, the practical skills you will develop over the course and the problem solving skills are in demand for progression to University, apprenticeships and for employment.

### Topics Studied

- Mechanics
- Electricity
- Waves
- Quantum Mechanics
- Thermal Physics
- Oscillations
- Astrophysics and Cosmology
- Gravitational and Electromagnetic Fields
- Nuclear and Particle Physics
- Medical and Radiation Physics



“A physicist is just an atoms way of looking at itself” – Niels Bohr.

## Assessment:

- Paper 1 – Modelling Physics – 100 marks – 2hrs 15 mins
- Paper 2 – Exploring Physics – 100 marks – 2hrs 15 mins
- Paper 3 – Unified Physics – 70 marks – 1hr 30 mins
- Practical Endorsement: 12 Assessed practicals. The skills you develop are tested in exams

## Entry Requirements:

Grade 6 in Combined Science or  
Grade 6 in Physics (Separate Science)  
and Grade 6 in Maths

## Specification

[OCR A-Level Physics A](#)



## Progression and Career Opportunities:

Studying A-Level Physics enables you to study many courses at University including – Physics, Maths, Engineering, Computer Science, Medicine, Architecture, Economics, Accounting, Finance and Meteorology. It is also valued for access onto engineering apprenticeships.