

Physics

Introduction

Ideal for students interested in Physics, Maths or Engineering.
It is an excellent starting point if considering a career in science or technology and will allow you to understand the scientific principles behind today's exciting new technologies.
The Physics qualification will open doors in a wide range of exciting careers.



Who is this course for?

There is a huge range of careers where an A Level in physics would be invaluable. Physics is especially helpful for jobs that involve building things and developing new technologies, including: engineering (mechanical, electrical, civil, electronic, biomedical, you name it...), astronomy, robotics, renewable energies, computer science, communications, space exploration, science writing, sports and games technology, research and nanotechnology.

It will appeal to students who wish to study a course which is demanding but interesting and which requires a reasonable competence in mathematics.

Most commonly Physics is paired with maths, computing, or chemistry.

Course Content

A two year course leading to an A Level with associated UCAS points, studying the following topics:

First year Topics

Imaging and signalling
Electricity
Mechanical properties of materials
Waves and quantum behaviour
Space, time and motion

Second year topics

Creating models
Out into space
Our place in the universe
Matter: very simple
Matter: hot or cold
Electromagnetism
Charge and field
Probing deep into matter
Ionising radiation and risk

Assessment

Unit	Type of Assessment
Paper 1	2 hour 15m Exam
Paper 2	2 hour 15m Exam
Paper 3	1 hour 30m Exam
Practical Endorsement	12 practicals throughout the 2 year course

Progression

Progression from this qualification can include higher education or a higher level apprenticeship to study any Physics, Technology, or Engineering based discipline.