

## Why study Physics?

In order to do well in an A level Physics course students will be required to have and develop good mathematical skills, hence the minimum requirement of a GCSE Grade B in Mathematics. Students will be expected to carry out background reading for course content, both from available texts and internet research. This is essential to support and strengthen their understanding.

## What skills are required?

Students studying Physics require an enquiring mind with an interest in explaining how things interact, from the small scale, Nuclear Physics, to the large scale, Astrophysics. In order to do well in an A level Physics course students will be required to have and develop good mathematical skills, hence the minimum requirement of a GCSE Grade B in Mathematics. Students will be expected to carry out background reading for course content, both from available texts and internet research. This is essential to support and strengthen their understanding of material covered in the specification.

## Course Content

In the first year students will study:

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and energy
- Electricity

During this first year there are six practical experiments that must be taken in class which will provide evidence towards a practical endorsement.

In the second year students will study:

- Further mechanics and thermal physics
- Fields
- Nuclear physics
- Turning Points

During this year a further six practical experiments must be undertaken to complete the practical endorsement.

## How it will be assessed:

Paper 1	Paper 2	Paper 3
Topics 1-5 and simple harmonic motion	Topics 6-8	Practical skills and topic 9
2 hours	2 hours	2 hours
85 marks	85 marks	80 marks
34% of A level	34% of A level	32% of A level

## Progression

Physics is one of the facilitating A levels and is highly regarded. It is an essential A level for most physics and engineering degree courses. The skills that A Level Physics develops in students, open up a wealth of career opportunities such as in mathematics, science and computing, business and finance.

## Staff

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