



# Mathematics



## Course Outline

A Level Mathematics is a 2 year course which is examined entirely at the end of year 13. The course includes a variety of core maths topics such as:

- Calculus
- Coordinate Geometry
- Trigonometry
- Logarithms and Exponentials
- Polynomials
- Proof
- Numerical Methods

It also includes statistics and mechanics topics such as:

- Hypothesis Testing
- Probability
- Normal and Binomial Distributions
- Kinematics in 1 and 2 Dimensions
- Newton's Laws and Forces

The course is examined using three 2 hour papers.

## Exam Board

Pearson Edexcel.

## Skills Required

There is a lot of work involved in A Level maths, so students are expected to work at a fast pace, manage their time well and adhere to deadlines. The ability to work independently is essential as it is expected that students will complete one hour of study for every lesson (there will be 9 lessons a fortnight). A Level Maths students must show a lot of initiative as they are required to come along and ask questions when necessary. Students who do this course are highly motivated and possess good problem solving skills. They readily incorporate new information and take on board the advice of their teachers.

## Entry Requirement

- Students are expected to have a grade 6 or above in GCSE maths.



## Future opportunities

A Level Maths is a very well respected qualification. It is an essential requirement for most engineering, computer science, economics and biomedical sciences courses at university. It is essential to have A Level Maths if you want to study maths or physics at university.

