

MATHEMATICS

Qualification: A-Level | Exam board: Edexcel



SUBJECT OVERVIEW

An A-Level in Maths will help develop your understanding of mathematics and mathematical processes in a way that promotes confidence and fosters enjoyment to develop abilities to reason logically.

This course will allow you to see how different areas of mathematics are connected, recognise how a situation may be represented mathematically, and understand the relationship between 'real world' problems. You will enhance your problem solving skills, learn mathematical techniques and use them in solving these 'real world' problems.

A-Level Mathematics can lead to a rewarding career in finance, engineering, economics or a wide range of other industries.

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YEAR ONE COURSE CONTENT

You will study the following modules:

- Pure Mathematics One which includes Proof, algebra and functions, coordinate geometry, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration and vectors.
- Statistics and Mechanics, which includes statistical sampling, data presentation and interpretation, probability, statistical distributions and statistical hypothesis testing, quantities and units in Mechanics, Kinematics, Forces and Newton's laws and moments.

YEAR TWO COURSE CONTENT

You will study the following modules:

- Pure Mathematics One and Two which builds on the content of the topics covered in the first year and also includes numerical methods
- Statistics and Mechanics which builds on the content of the topics covered in the first year but also questions are of an A-Level standard rather than an AS standard.

WHAT DOES THIS COURSE PREPARE ME FOR?

A-Level Mathematics is an excellent qualification for continuing the study of mathematics at university, and can lead to a rewarding career in finance, engineering, economics or a wide range of other industries.

COURSE SUPPORT AND ENRICHMENT

Bridging units are in place at the start of the course to support the smooth transition from GCSE to A-Level Mathematics.

You are encouraged to support each other by working in small groups and also have access to extra support if needed.

ASSESSMENT

The course is assessed by three exams at the end of the two years.

The results of each exam are then amalgamated to give an overall result in A-Level Mathematics. Both courses encourage independent learning, time management, working in small groups providing support for each other and, of course, a deep love of the subject.



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