

A Level Mathematics



Exam Board: Edexcel

Sixth Form education which includes Mathematics is always looked on most favourably by employers and university admission tutors.

By studying maths A Level you'll gain and work on skills such as problem solving, logic and statistics. These are all transferable skills that will be useful in all aspects of your personal and professional life moving forward.

Course overview

Topic 1 – Proof

Topic 2 – Algebra and functions

Topic 3 – Coordinate geometry in the (x, y) plane

Topic 4 – Sequences and series

Topic 5 – Trigonometry

Topic 6 – Exponentials and logarithms

Topic 7 – Differentiation

Topic 8 – Integration

Topic 9 – Numerical methods

Topic 10 – Vectors

Section A: Statistics

Topic 1 – Statistical sampling

Topic 2 – Data presentation and interpretation

Topic 3 – Probability

Topic 4 – Statistical distributions

Topic 5 – Statistical hypothesis testing

Section B: Mechanics

Topic 6 – Quantities and units in mechanics

Topic 7 – Kinematics

Topic 8 – Forces and Newton's laws

Topic 9 – Moments

Assessment:

Three Papers: 2 hours each

Paper 1: 33.3% of A-level 100 marks

Paper 2: 33.3% of A-level 100 marks

Paper 3: 33.3% of A-level 100 marks



WORK HARD, BE KIND, TAKE RESPONSIBILITY

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A Level Mathematics



Other Course Information:

Graphics Calculators are essential for A-level Mathematics - approximately £50.

Entry requirements:

Grade 7 GCSE Mathematics. Students who obtain a grade 6 will also be considered dependent on the recommendation of their Year 11 teacher. These students will need strong algebra skills to be accepted onto the course.

Who is the course for?

- Students who wish to undertake further studies in Mathematics, usually at university.
- Students who are seeking a career in which Mathematics plays an integral part. There are a range of careers including scientific, geographic and technical all of which will benefit from an A-level in Mathematics.
- Students who have an interest and aptitude in the subject.

Career pathways

If you wish to study for a career in medicine, the sciences, engineering, accountancy, computing, business, economics, or PE then Mathematics is either a recommended or an essential A-level. If you wish to study for a career in politics, law, languages, psychology or sociology then the complementary skills you develop in Mathematics of logical and clear thought, will enhance these subjects. Mathematics is, of course, a fascinating subject in its own right. Many students study it for the joy and the satisfaction that understanding it brings.

The math's department is full of amazing teachers who ensure that every student understands and enjoys the work. Math's itself s interesting and solving different problems is always exciting."



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