



A LEVEL

MATHS

Course Summary

COURSE OVERVIEW

Mathematics develops advanced problem-solving, reasoning, and analytical skills. The course covers pure mathematics, statistics, and mechanics, building on GCSE knowledge. Students explore topics such as calculus, algebra, trigonometry, probability, and forces, preparing them for further study in mathematics, engineering, science, economics, and related university courses.

WHY SHOULD I STUDY MATHS?

Studying maths develops logical thinking, problem-solving, and analytical skills essential for many careers. It helps you understand patterns, make informed decisions, and tackle real-world challenges. Maths supports subjects like science, economics, and technology, opening doors to diverse opportunities in engineering, finance, data analysis, and beyond. It builds confidence and creativity.

WHAT COURSES CAN THIS PREPARE ME FOR AT UNIVERSITY?

Mathematics, engineering, physics, computer science, economics, and finance. It also supports studies in architecture, psychology, data science, and actuarial science.

WHAT CAREERS CAN THIS SUBJECT SET ME UP FOR?

Engineering, finance, data science, computer programming, architecture, economics, and teaching. It's also valuable for roles in research, accounting, actuarial science, artificial intelligence, and statistics.

COURSE SPECIFICATION

EXAM BOARD: EDEXCEL 9MA0

Paper	Content	Duration	Weighting
1	Pure Mathematics 1 - algebra, functions, coordinate geometry, trigonometry, exponentials, logarithms, differentiation, integration, vectors, and mathematical proof.	2 hours	33.3%
2	Pure Mathematics 2 - advanced algebra, functions, trigonometry, exponentials, logarithms, differentiation, integration, numerical methods, and 3D vectors	2 hours	33.3%
3	Statistics and Mechanics - data analysis, probability, distributions, hypothesis testing, kinematics, forces, Newton's laws.	2 hours	33.3%