Why Study A Level Mathematics?

Course Introduction

Explore the patterns, logic and ideas that shape the world around us. From solving complex problems to modelling real-world situations, A-level Mathematics develops your analytical thinking and strategic precision. The course builds skills that open doors to a wide range of university courses and future careers.

Entry Requirements

5 GCSEs with a minimum Grade 6
Minimum Grade 6 in GCSE Maths

Course Content

A-level Mathematics builds on your GCSE knowledge and explores how mathematical ideas connect and apply to the world around us.

- Pure Mathematics: Develop your understanding of algebra, functions, trigonometry, calculus and logarithms, learning to solve increasingly complex problems.
- Statistics: Explore probability, data analysis and statistical distributions to interpret evidence and draw conclusions.
- Mechanics: Apply mathematics to real-world situations involving forces, motion and acceleration, discovering how mathematical models explain the physical world.

Skills Developed

A-level Mathematics develops your ability to think logically, analyse complex problems and approach challenges with confidence. You'll strengthen your algebraic reasoning, learn to interpret data, recognise patterns and apply mathematical methods to unfamiliar problems. These skills are valuable far beyond the classroom.

Career Opportunities

A-level Mathematics opens doors to a wide range of university courses and career paths. It provides a strong foundation for degrees in mathematics, engineering, economics, computer science and physics, while developing highly valued skills for careers in finance, data science, technology, research and many other fields.

Course Assessment

Assessment is through three written examinations combining mathematical methods, problem-solving and applied questions.

- Paper 1: Pure Mathematics 1: 2 hours (33.3%).
- Paper 2: Pure Mathematics 2: 2 hours (33.3%).
- Paper 3: Statistics and Mechanics: 2 hours (33.3%).