



Maths

Why study Maths?

You will become a more sophisticated problem-solver. Relive the pioneers of Mathematical discovery by understanding logarithms and calculus. You will learn how the worlds of chance, data, motion and stillness can be described using Maths. Develop knowledge of how technology can be used to solve Maths problems.

What skills will I gain from studying Maths?

You will become better at manipulating algebra. You will appreciate how to apply your mathematical knowledge. You will realise that complex mathematical problems can be solved in varied ways.

Having studied Maths what opportunities will be open to me?

University courses with a mathematical element will be accessible, which lead into a wide variety of interesting and rewarding careers such as engineering, accountancy, actuarial science, statistical studies, meteorology and many more. There are also increasing numbers of employers looking to take on suitably qualified apprentices with Maths A level.

Entry requirements

Grade 6 in GCSE Maths

Exam Board – Edexcel

Specification code/no. - 9MA0

Topics covered in Year 12

Algebra and functions; Coordinate geometry; Trigonometry; Calculus; Exponentials and logarithms; Statistical sampling; Data presentation and interpretation; Probability; Distributions; Hypothesis testing; Kinematics and Newton's Laws.

Topics covered in Year 13

Proof; Partial fractions; Modelling; Sequences and series; Binomial expansions; Further trigonometry; Parametric equations; Further calculus; Vectors; Regression and correlation; Probability; Normal distribution; Moments; Forces and Projectiles.