

A LEVEL IN MATHEMATICS

ENTRY REQUIREMENTS

5 GCSE GRADE 4 OR ABOVE
INCLUDING 7 IN MATHS

COURSE DESCRIPTION

If you love cracking a difficult maths problem, or if you're the type of person who can't leave a problem alone until it's solved, welcome home. A Level Maths isn't just about memorizing formulas; it is the study of logical patterns, elegant structures, and the ultimate cognitive workout.

Maths is the universal language connecting the sciences, economics, psychology, and data science. It is the gold standard of A-Levels, fiercely respected by top universities and elite employers alike because it proves one vital thing: you know how to think.

TOPICS STUDIED

- Calculus
- Coordinate geometry
- Sequences & series
- Trigonometry
- Exponential growth & decay
- Statistical distributions
- Probability theory
- Kinetics
- Motion of projectiles
- Forces and Newton's Laws of Motion

In this course, you will transition from executing mathematical procedures to designing your own analytical strategies. You will learn how to use differentiation to optimize complex systems and integration to find the exact areas under curved spaces. You will explore Trigonometric Identities and learn the art of formal Mathematical Proof - the definitive logic used to establish absolute truths. In mechanics you turn the physical world into a mathematical playground. You will model the trajectories of projectiles, calculate the exact moment an object overcomes friction, and apply Newton's Laws of Motion to predict how forces interact in everything from structural engineering to planetary orbits. In Statistics, The Science of Uncertainty, you will learn how to decode randomness. You will master the Binomial and Normal Distributions and use Hypothesis Testing to mathematically prove whether a scientific medical trial actually worked or was just a fluke.

The tools you sharpen in A-Level Maths are the exact same weapons used to solve the world's most complex challenges. If you want to look at the world and not just see what is happening, but understand why and how it happens, this is the course for you.

There is an entire universe of patterns waiting to be decoded. Let's go find them.

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WHAT I ENJOYED MOST
WAS THE LIFELONG
RELATIONSHIPS I MADE
AT S6C, NOT ONLY WITH
FRIENDS WHO I BELIEVE
WILL BE FRIENDS I'LL HAVE
FOR LIFE, BUT WITH MY
TEACHERS AS WELL WHO I
WILL NEVER FORGET.
S6C GRADUATE

100 % EXAMS

UP TO 56 UCAS
POINTS