REACH
ACADEMY SIXTH FORM
SUBJECT: MATHS

What is Maths A Level?

An A Level in mathematics introduces calculus and its applications (statistics and mechanics). It emphasises how mathematical ideas are interconnected and how mathematics can be applied to model situations mathematically using algebra and other representations, to help make sense of data, to understand the physical world and to solve problems in a variety of contexts, including social sciences and business. It prepares learners for further study and employment in a wide range of disciplines involving the use of mathematics.

It encourages you to think and act mathematically, using mathematical skills and forms of communication to analyse situations within mathematics and elsewhere.

WHAT WILL I LEARN?

What content will I cover?

Paper	Topics	Weighting	When?
1	✓ Pure Mathematics	33.3% of A-level	Year 13
2	✓ Pure Mathematics	33.3% of A-level	Year 13
3	✓ Statistics and Mechanics	33.3% of A-level	Year 13

How will I be assessed?

You take all 3 exams at the end of Year 13. They are 2 hours each.

What skills will I develop?

✓ Understanding of the mathematics that underpin many aspects of our lives
✓ The ability to apply a range of mathematical skills to different situations
✓ Acute logical thinking and problem-solving abilities
✓ The ability to process, interpret and analyse information.

WHERE CAN MATHS A LEVEL TAKE ME?

Maths A-Level prepares you to study for most degrees. Maths, accounting, engineering, sciences, computing, finance and economics degrees are particularly appealing to students with maths A-level.

WHAT DO I NEED TO ACHIEVE?

You must gain a Grade 7 in maths at GCSE.

RECOMMENDED READING:

Magical Mathematics - Persi Diaconis and Ron Graham

Mathenauts: Tales of Mathematical Wonder – Rudy Rucker

Seventeen Equations that Changed the World - Ian Stewart

HOW CAN I FIND OUT MORE?

Email: Hannah.Whittenham@reachacademy.org.uk

MATHS