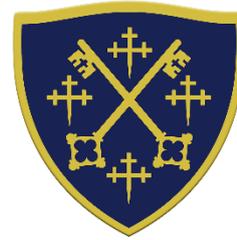


A Level: Maths

Specification: Edexcel



**BISHOP
STOPFORD
SCHOOL**
Sixth Form
faith | justice | responsibility | truth | compassion

A-level Mathematics is a challenging and rewarding course that develops your analytical thinking, problem-solving skills, and mathematical fluency. It's more than just numbers—it's about understanding patterns, making logical decisions, and applying maths to real-world situations. Whether you're aiming for a career in science, engineering, economics, or technology, this course equips you with the tools to think critically and tackle complex challenges with confidence. It's highly respected by universities and employers, and opens doors to a wide range of exciting opportunities.

Subject Content

Pure Mathematics - Builds the foundation for advanced mathematical thinking and problem-solving.

Proof, Algebra, Functions and Graphs, Coordinate Geometry, Sequences and Series, Trigonometry, Differentiation, Integration, Numerical Methods and Vectors.

Statistics - Focuses on interpreting and analysing data to support evidence-based decision-making.

Statistical Sampling, Data Presentation and Interpretation, Probability, Statistical Distributions, Statistical Hypothesis Testing and Interpreting a Large Data Set.

Mechanics - Applies mathematical principles to physical systems, ideal for students interested in physics or engineering.

Quantities and Units in Mechanics, Kinematics, Forces and Motion, Newton's Laws and Moments.

Exam Assessment

The full A-level qualification is assessed through **three exam papers**, each lasting **2 hours** and worth **100 marks**.

Paper 1: Pure Mathematics 1

Paper 2: Pure Mathematics 2

- Assess the same Pure content areas, but with different questions and combinations.

Paper 3: Statistics and Mechanics

- The **large data set** for statistics is released in advance and should be studied thoroughly.

All exam papers are **calculator-allowed**, each contributes **one-third of your final grade**, and a **formulae booklet** is provided during the exam to support your working.

Enrichment Opportunities in A-Level Mathematics

Senior Mathematics Challenges (Individual & Team)

Take part in nationally recognised competitions that test your problem-solving skills, logical reasoning, and mathematical creativity. These challenges offer:

- Individual and Team Challenges.
- Participation can lead to certificates, awards, and even invitations to prestigious follow-on rounds.

Maths Partner Programme (Year 12)

Become a mentor to a Year 11 student preparing for their GCSE Maths exams. As a Maths Partner, you will:

- Provide one-on-one support and guidance during revision sessions.
- Reinforce your own mathematical understanding by teaching key concepts.
- Develop leadership, communication, and empathy—skills that are valuable beyond the classroom.
- Make a meaningful impact on someone else's academic journey.

Maths Society

Join a vibrant community of students passionate about mathematics. As a member—or even a student leader—you can:

- Explore advanced topics beyond the curriculum, such as game theory, cryptography, or mathematical paradoxes.
- Organise talks, workshops, and themed events to inspire curiosity and deeper learning.
- Connect with guest speakers from universities and industry to gain insight into mathematical careers.

For more information or guidance about A-Level Maths, please speak to:

- **Head of Mathematics**

Mrs C Banfield

cbanfield@bishopstopford.com

- **Key Stage 5 Maths Lead**

Mrs P Ready

pready@bishopstopford.com