Mathematics Department

Years 12-13

The Latymer School

Why study maths in the sixth form?

Maths can lead to many fantastic careers…

Engineering

Accountancy

Project Management

Psychology

Actuary

Pilot

Analyst

Medical Research

Teaching

Game Designer

Banking

Football Analytics

Data Scientist

Corporate Law

Architect

IT Consultancy

Medicine

Lecturing

Programmer

Air Traffic Control

Statistician

What maths do you study in the sixth form?

Pure

Beautiful maths that is abstract but can have applications to the real world or problem solving.

Applied

Mechanics relates to motion and forces, good for those doing A-Level Physics.

Statistics relates to data, good for those studying A-Levels in Humanities, Biology and Economics.

Preparing for maths in the sixth form

After your GCSE exams, practise your algebra skills by working through Edexcel's Level 3 Algebra papers, details available on the 'Sixth Form admissions' page on our website.

Completing these papers should make the transition from GCSE to A-Level that little bit smoother.

You will have an algebra test at the start of Year 12 to make sure you're up to speed.

What are the options?

Single maths

A-Level Maths

Double maths

A-Level Maths

A-Level Further Maths

Exam board is Pearson Edexcel

What is expected for single maths?

Grade 7 in GCSE Maths.

Competence in GCSE algebra.

Hard work as A-Level is a big step up from GCSE.

How does single maths work?

A-Level Maths content

⅔ Pure + ⅓ Applied

Exams

Pure paper 1 (2 hours)
Pure paper 2 (2 hours)
Applied (2 hours)

Teaching

4 hours 40 minutes of maths each week
2 teachers

What is expected for double maths?

Grade 9 (minimum 8) in GCSE Maths.

Expertise in GCSE algebra.

Hard work as double maths is a big step up from single maths.

How does double maths work?

Overview

Complete A-Level Maths in Year 12.

Complete A-Level Further Maths in Year 13.

How does double maths work?

A-Level Further Maths content

½ Pure + ½ Applied

Exams

Core Pure paper 1 (1½ hours)
Core Pure paper 2 (1½ hours)
Further Mechanics 1 (1½ hours)
Further Statistics 1 (1½ hours)

Teaching

9 hours 20 minutes of maths each week
4 teachers

If you choose double maths

You are making a commitment to complete A-Level Maths in Year 12 **and** A-Level Further Maths in Year 13.

You will have 4 A-Levels by the end of Year 13.

Progression to A-Level Further Maths in Year 13 is dependent on the achieved A-Level Maths grade in Year 12.

How is maths taught?

In a typical lesson students are taught new content and problem-solving skills through teacher-led whole class interaction, leading to independent work.

Homework is based on class work, and at least one hour of independent study per day is essential to attain the highest grades.

There are regular assessments and revision for these is done online using Dr Frost Maths.

How are the classes arranged?

Majority of Year 12 students study maths.

Students are split into 10 groups:

7 single maths

3 double maths

Classes are arranged the same in Year 13.

Super-curricular maths opportunities

Maths Society – regular sessions run by our students on topics of interest.

Maths Challenges – UKMT Senior Challenge, Girls' Maths Challenge, and Team Challenge.

Problem Solving Club – weekly sessions where students tackle problems beyond the syllabus.

University applications

Single maths

UCAS predictions for A-Level Maths are calculated using the internal UCAS Maths exam results at the end of Year 12.

Double maths

UCAS predictions for A-Level Maths/Further Maths are calculated using the A-Level Maths exam results at the end of Year 12.

Details are displayed clearly on the maths corridor and outside the maths staffroom.

Maths and related degrees

Double maths is expected at many universities e.g. Oxford, Cambridge, Warwick, Imperial, UCL, KCL, Bath, Bristol, Durham.

Maths entrance papers may also be required e.g. TMUA (Oxford) or STEP (Cambridge).

Single maths is sufficient at some universities, but AEA/TMUA/STEP may then be required.

Double maths is **not** required for medicine.

University destinations

Many of our students go on to study maths or related degrees such as engineering at top universities including Oxford, Cambridge, Warwick, Imperial, UCL, Bath and Bristol.

Each year, former students run mock university interviews to help the next generation of Latymer students in their quest to gain places at these top universities.

A-Level results 2026

A*	A*A	A*AB
94	184	236
35%	68%	87%

270 students sat A-level Maths and/or Further Maths exams

Further information

https://www.latymer.co.uk/national-curriculum/stem/mathematics