

**Course Title**

A Level Maths

Aims of the Course

The aims of the course are to:

- Develop mathematical skills introduced at GCSE.
- Develop transferable skills such as critical thinking, problem solving, and perseverance.
- Gain an appreciation for how mathematics influences the world around us.

What will you study?

Pure	Applied	
	Mechanics	Statistics
Algebraic methods	Forces and Systems of Forces	Probability
Trigonometry	Motion	Data interpretation
Calculus	Projectiles	Statistical distributions
Vectors		

How will you be assessed?

- You will sit a test every few weeks throughout Year 12 and Year 13 to ensure the skills being taught are understood and embedded.
- There are three formal exams at the end of Year 13, two of which cover the pure content and one paper covering the applied content. Each paper is 2 hours long.

What wider skills will you develop?

- Problem solving and critical thinking.
- Presentation and clarity of explanation.
- Independent study skills
- Resilience

What are the future options from the course?

A Maths qualification can open up so many doors and is always viewed favourably by potential employers. There are a wide range of careers which maths applies to, in areas ranging from engineering to entertainment. Actuarial sciences, urban planning, accountancy, meteorology, and stockbroker are all potential areas for future study.

Who can you contact for more information?

The Course Leader is Miss Fiona Rosler (Head of Maths) who can be contacted via email at fiona.rosler@verulam.herts.sch.uk

**Course Title**

A Level Further Maths

Aims of the Course

The aims of the course are to:

- Develop mathematical skills introduced at GCSE.
- Develop transferable skills such as critical thinking, problem solving, and perseverance.
- Gain an appreciation for how mathematics influences the world around us.

What will you study?

Core Pure	Applied *these modules can change each year	
	Further Mechanics	Further Statistics
Algebraic proof	Momentum	Probability
Complex numbers	Elastic collisions	Statistical distributions
Matrices	Energy and power	Central limit theorem
Polar coordinates		

How will you be assessed?

- You will sit a test every few weeks throughout Year 12 and Year 13 to ensure the skills being taught are understood and embedded.
- All formal exams take place at the end of Year 13.

What wider skills will you develop?

- Problem solving and critical thinking.
- Presentation and clarity of explanation.
- Independent study skills
- Resilience

What are the future options from the course?

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Who can you contact for more information?

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Course Title	AS Level Mathematical Studies (Core Maths)
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Aims of the Course

The aims of the course are to:

- Develop mathematical skills introduced at GCSE.
- Develop transferable skills such as critical thinking, problem solving, and perseverance.
- Gain an appreciation for how mathematics influences the world around us.

What will you study?

Compulsory Content	Optional Content (one of the below)
Data analysis Personal Finance Estimation	Statistical techniques Graphical techniques Risk analysis

How will you be assessed?

- You will sit a test every few weeks throughout Year 12 to ensure the skills being taught are understood and embedded.
- All formal exams take place at the end of Year 12.

What wider skills will you develop?

- Problem solving and critical thinking.
- Presentation and clarity of explanation.
- Independent study skills
- Resilience

What are the future options from the course?

A maths qualification can open up so many doors and is always viewed favourably by potential employers. There are a wide range of careers which maths applies to, in areas ranging from engineering to entertainment. Actuarial sciences, urban planning, accountancy, meteorology, and stockbroker are all potential areas for future study.

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