

### COURSE TITLE

**A Level Maths**

**Exam Board: E**

### 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

Algebraic methods, Trigonometry, Calculus, Vectors.

#### Applied

##### Mechanics

Forces and Systems of Forces, Motion, Projectiles

##### Statistics

Probability  
Data interpretation  
Statistical distributions

### 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.
- Independent study skills.
- Presentation and clarity of explanation.
- 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.

### KEY CONTACT

The Course Leader is:

**Mrs Anita Cornmell (Head of Maths)**

Who can be contacted via email at [anita.cornmell@verulam.herts.sch.uk](mailto:anita.cornmell@verulam.herts.sch.uk)

### WANT MORE INFORMATION?

For further information about the Verulam Sixth Form or BeauSandVer Consortium please contact:

**Mr Stephen Base**  
(Head of Sixth Form)  
[Stephen.Base@Verulam.herts.sch.uk](mailto:Stephen.Base@Verulam.herts.sch.uk)

OR

**Mrs Nele Destickere**  
(KS5 Administration)  
[Nele.Destickere@Verulam.herts.sch.uk](mailto:Nele.Destickere@Verulam.herts.sch.uk)

### COURSE TITLE

**A Level Further Maths**

**Exam Board: Edexcel**

### 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

Algebraic proof  
Complex numbers  
Matrices  
Polar coordinates

*Applied \*these modules can change each year*

#### Further Mechanics

Momentum  
Elastic collisions  
Energy and power

#### Further Statistics

Probability  
Statistical distributions  
Central limit theorem

### 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.
- Independent study skills
- Presentation and clarity of explanation.
- Resilience

### WHAT ARE THE FUTURE OPTIONS FROM THE COURSE?

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### COURSE TITLE

**AS Level Mathematical Studies (Core Maths)**

**Exam Board: AQA**

### 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:**

- Data analysis
- Personal Finance
- Estimation

**Optional Content (one of the below)**

- Statistical techniques
- Graphical techniques
- Risk analysis

### HOW WILL YOU BE ASSESSED?

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- All formal exams take place at the end of Year 12.

### WHAT WIDER SKILLS WILL YOU DEVELOP?

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