

# Mathematics A Level



**Exam Board:** Edexcel

**Entry requirements:** Grade 6 in GCSE Maths, Grade 5 in GCSE English Language or Literature

## Intent

### Structure

Students will develop their passion and curiosity around higher level Maths and begin to realise the links between all aspects of Mathematics. Students will deepen their knowledge of Algebra and Geometry whilst tackling problem style questions that draw on all aspects of their prior learning.

Students in year 12 learn from a diverse curriculum containing mandatory elements from Algebra, Geometry, Calculus, Proof, Functions, Sequences and Series, Trigonometry, Exponentials, Logarithms and Vectors. In year 13 students develop these new skills and broaden their knowledge of these topics. Students are also required to learn a basic level of advanced Statistical Maths and Applied Maths.

## Implementation

### Content & Sequencing

AS Level Mathematics is split into the following:

62.5% = Pure Maths

37.5% = Statistics and Mechanics

A Level Mathematics is split as follows:

67% = Pure Maths

33% = Statistics and Mechanics

### Assessment Methods

AS Assessments can be taken at the end of Year 12, but results do not go towards any future A Level examinations.

AS Examinations = 2 Papers, 1x2hrs (Core) and 1x75mins (Stats/Mechanics)

A Level Examinations = 3 Papers, 3x100mins (2xCore and 1xStats/Mechanics)



## Impact

### Onward Progression

Studying Mathematics A Level is a "door opener" to many future career and job prospects. As a Gateway subject to University courses and Job requirements, students with successful outcomes in Mathematics will be seen as intelligent, hard-working, deep thinkers and those able to work around and solve challenging problems.

With the obvious lead into Mathematical based University courses, many other Social Sciences and Engineering based degrees require A Level Mathematics as a minimum requirement. A Level Mathematics prepares students for a many of subjects and career paths: Physics, Chemistry, Economics, Psychology, Business, Geography, Biology etc

## Further information contact

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