



# Mathematics

Exam board: Edexcel

Exam code: (1MA1)



# What is this course about?

- *GCSE Mathematics will provide you with a varied and useful ‘toolbox’ of knowledge which will open ways of understanding and solving mathematical problems. It will train you to be logical and systematic in your thinking and see the relevance and beauty of Maths in all areas of life.*
- *The Edexcel mathematics GCSE will develop and test your knowledge and competency in four ways:*
- ***Mathematical fluency:*** *Develop fluent knowledge and understanding of mathematical methods and concepts*
- ***Problem solving:*** *Acquire, select and apply mathematical techniques to solve problems*
- ***Reasoning:*** *Reason mathematically, make deductions and inferences, and draw conclusions*
- ***Communicate:*** *Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.*



## What will I learn?

- *The course will cover the following: Number, Algebra, Ratio proportion and rates of change, Geometry and measures, Probability and Statistics.*
- *The weighting of Mathematical content is slightly different at each tier.*

<b>Mathematical content</b>	<b>Foundation</b>	<b>Higher</b>
Number	25%	15%
Algebra	20%	30%
Ratio, Proportion and rates of change	25%	20%
Statistics and Probability	15%	15%
Geometry and Measures	15%	20%



## How will I be assessed?

- *GCSE mathematics is assessed in tiered papers – meaning that some students will sit ‘Foundation’ exams, and some ‘Higher’ exams. Both tiers allow students to access a Grade 5.*
- *3 Papers (1 Non-Calculator paper, 2 Calculator papers)*  
*Time allowed: 1 hour 30 minutes per paper*  
*Total marks: 80 marks per paper*



## Where could this course take me in the future?

- *This course allows students to access A-Level Maths, Further Maths, Physics, Chemistry and Biology.*
- *Many great Mathematicians go into careers in accountancy, actuary, finance, investment banking and teaching. There are more scientific routes that also require a high competency in Maths including computing, engineering research sciences and medicine. Mathematics is also essential for many design, building and architectural careers.*
- *If you wish to student A-Level mathematics in the Sixth Form, you will require at least a Grade 7 in GCSE Maths.*