

## Mathematics



## Career Options

Most jobs and careers will need you to use maths in some way and it's particularly useful in job families like accountancy, banking and finance, management, environmental sciences, construction, engineering and manufacturing, medical technology, and science and research.

## Subject Content

### Higher

Algebra – Expressions, Equations, Substitution  
Number – Calculating, Estimating, Properties  
Geometry - Calculating Length, Space and Angles, Constructions, Transformations  
Statistics - Measures, Representing Data, Comparisons  
Probability – Single and Continuous Theory  
Ratio and Proportion - Comparisons using linear, square, cubic and exponential factors.  
Links to KS5

### Foundation

Algebra – Expressions, Equations, Substitution  
Number – Calculating, Estimating, Properties  
Geometry - Calculating Length and Space, Constructions, Transformations  
Statistics - Measures, Representing Data, Comparisons  
Probability – Single Theory  
Ratio and Proportion - Comparisons using linear factors.  
Consolidation of KS3

## Assessment Information

Throughout the course students will be shown past examinations and assessed regularly on these to gain experience and gauge progress. This also gives the pupil a clear indication of their current grade.

At the end of their course, students will sit three exams at either Foundation Tier grade 1-5 or Higher Tier grade 4-9. These three tests consist of one non calculator paper and two calculator papers.

## Why Study...?

Mathematics is the art of problem solving it is a part of everyday life. From predicting the weather to understanding the origins of the universe mathematics is used to describe and understand the world (and universe) around us. It is a vital tool in our increasingly technical world, playing an important role in many aspects of modern life, from protecting our details online to predicting the next stock market crash.

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