

Mathematics



Qualification: GCSE

Equivalent to: 1 GCSE (grade 9-1)

Mathematics is a core subject and therefore is compulsory for all students.

Course Content

Six topics are covered: Number, Algebra, Ratio & Proportion, Statistics and Probability. More and more of the maths covered has an element of functionality i.e. maths that could feature in everyday life.

The course will enable students to:

1. develop fluent knowledge, skills and understanding of mathematical methods and concepts
2. acquire, select and apply mathematical techniques to solve problems
3. reason mathematically, make deductions and inferences and draw conclusions
4. comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

Assessment

Assessment is available at two tiers: Higher (grades 4 – 9) or Foundation (grades 1 – 5). There are three examinations in the Maths qualification. One non-calculator paper and two calculator papers. Each paper contains a mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper. All GCSE exams in mathematics include questions that allow students to draw on elements from within and across different topic areas, and questions that allow students to provide extended responses.

Who would enjoy and be successful on the course?

The most successful students possess many of the following attributes :

- Good at problem solving
- Think logically
- Perseverance
- Work hard
- Reason analytically
- Grasp concepts and strategies quickly
- Use maths with self-assurance
- Communicate mathematical concepts both verbally and in writing

Progression – Sixth Form / Further Education / Careers

A-level Maths and Further Maths are offered in the Sixth Form.

A good GCSE pass in maths is a necessity for many careers.