

Level 2 Certificate in Further Mathematics Curriculum Overview



At the end of Year 10, we invite high-achieving maths students to work towards achieving a Level 2 qualification in Further Mathematics through the AQA examination board (equivalent to a higher tier GCSE).

This course is taught in one lesson per week, and Further Maths students are placed into an intervention form, where they can spend some additional time practising the new techniques covered in the course.

Assessment is covered through the use of DIRT (directed improvement and reflection time), and assessment tasks that will be completed within the classroom during timetabled lessons.

Year 10

HT6

Number

- Product Rule for Counting
- Surds (simplifying / rationalise the denominator)

Year 11

HT1

Algebra

- Solving Equations with Indices
- Expanding and Factorising
- Rearranging Formulae
- Binomial Expansion
- Dividing Polynomials
- The Factor Theorem

HT2

Algebra

- Functions (Composite / Inverse)
- Piecewise Functions
- Sketching Quadratic Graphs
- Exponential Graphs

Circle Geometry

- Equation of a Circle
- Solving Circle Problems

While Year 11 students will sit mock exams in most subjects during this half-term, we will not require students to sit a mock exam in Further Maths, instead asking students to prioritise performance in their mock for GCSE Maths.

<p>HT3</p>	<p><u>Algebra</u></p> <ul style="list-style-type: none"> • Linear & Quadratic Sequences • Limiting Value of a Sequence • Simultaneous Equations with Three Unknowns <p><u>Trigonometry</u></p> <ul style="list-style-type: none"> • Exact Trigonometric Values • Graphs of Trigonometric Functions • Solving Trigonometric Equations • Trigonometric Identities 	<div style="border: 1px solid red; padding: 5px; color: red;"> <p>We will complete an in-class assessment towards the end of this half-term so that students can experience the standard of questions on a Further Maths exam.</p> </div>
<p>HT4</p>	<p><u>Calculus</u></p> <ul style="list-style-type: none"> • Introduction to Differentiation • Gradient of a Function • Tangents and Normals • Using the Second Derivative 	
<p>HT5</p>	<p><u>Matrices</u></p> <ul style="list-style-type: none"> • Matrix Multiplication • The Identity Matrix • Matrix Transformations <p>The remainder of this term to be used to revise for formal assessments in HT6.</p>	
<p>HT6</p>	<p>Level 2 assessments completed within first weeks of this term. Paper 1: 80 marks (1 hour 45 mins) – Non calculator Paper 2: 80 marks (1 hour 45 mins) – Calculator allowed</p>	