

## **Maths Department Curriculum Map**

Students follow one of two pathways in mathematics dependent upon ability. There is a higher tier pathway, which prepares students to sit the higher tier GCSE paper in year 11 and there is a foundation tier pathway, which prepares students to sit the foundation tier GCSE paper in year 11.

Both pathways use a cyclical approach whereby topics are revisited each year and expanded upon to provide more in depth knowledge as students develop their maths skills. The type and depth of content covered by students is geared towards their ability and the pathway they are on. Students are assessed regularly to ensure that they are still on the correct pathway.

### **Higher Tier Pathway**

<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>
<b>Year 7</b>	<b>Year 8</b>	<b>Year 9</b>
Unit 1 Integers and Decimals	Unit 1 Integers	Unit 1 Proportional reasoning
Unit 2 Fractions, decimals and percentages	Unit 2 Fractions, decimals and percentages	Unit 2 Calculations
Unit 3 Calculation and measure	Unit 3 Calculations	Unit 3 Calculation plus
Unit 4 Percentage, ratio and proportion	Unit 4 Ratio and proportion	Unit 4 Geometrical reasoning and construction
Unit 5 Calculations	Unit 5 Calculation plus	Unit 5 Measures
Unit 6 Measures	Unit 6 Measure	Unit 6 Transformations and scale
Unit 7 2-D shape and construction	Unit 7 Angles and 3-D shapes	Unit 7 3-D shape and trigonometry
Unit 8 Transformations and symmetry	Unit 8 Transformations	Unit 8 Sequence and graphs
Unit 9 3-D shape and construction	Unit 9 Construction and 3-D shape	Unit 9 Equations
Unit 10 Sequences and functions	Unit 10 Expressions and formulae	Unit 10 Graphs
Unit 11 Expressions and formulae	Unit 11 Equations and Graphs	Unit 11 Expressions and formulae
Unit 12 Integers, functions and graphs	Unit 12 Sequences and roots	Unit 12 Surveys
Unit 13 Expressions and equations	Unit 13 Algebra	Unit 13 Probability
Unit 14 Equations and graphs	Unit 14 Probability	Unit 14 Interpreting statistics
Unit 15 Representing and interpreting data	Unit 15 Collecting and representing data	Unit 15 Functional maths
Unit 16 Probability	Unit 16 Analysing and interpreting data	

Unit 17 Surveys and data

Unit 17 Functional maths

**YEAR 4**

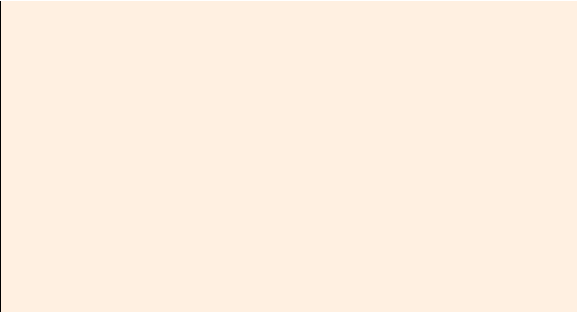
**YEAR 5**

GCSE (9-1) Higher	GCSE (9-1) Higher
Year 10	Year 11
Unit 1 Number	Unit 16 Circle theorems
Unit 2 Algebra	Unit 17 More algebra
Unit 3 Interpreting and representing data	Unit 18 Vectors and geometric proof
Unit 4 Fractions, ratio and proportion	Unit 19 Proportion and graphs
Unit 5 Angles and trigonometry	
Unit 6 Graphs	
Unit 7 Area and volume	
Unit 8 Transformation and constructions	
Unit 9 Equations and inequalities	
Unit 10 Probability	
Unit 11 Multiplicative reasoning	
Unit 12 Similarly and congruence	
Unit 13 More trigonometry	
Unit 14 Further statistics	
Unit 15 Equations and graphs	

## Foundation Tier Pathway

YEAR 1	YEAR 2	YEAR 3
Year 7	Year 8	Year 9
Unit 1 Analysing and displaying data	Unit 1 Number properties and calculations	Unit 1 Number calculations
Unit 2 Calculating	Unit 2 Shapes and measures in 3D	Unit 2 Sequences and equations
Unit 3 Expressions, functions and formulae	Unit 3 Statistics	Unit 3 Statistics
Unit 4: Graphs	Unit 4 Expressions and equations	Unit 4 Fractions, decimals and percentages
Unit 5 Factors and multiples	Unit 5 Decimals calculations	Unit 5 Geometry in 2D and 3D
Unit 6 Decimals and measures	Unit 6 Angles	Unit 6 Algebraic and real-life graphs
Unit 7 Angles and lines	Unit 7 Number properties	Unit 7 Multiplicative reasoning
Unit 8 Measuring and shapes	Unit 8 Sequences	Unit 8 Algebraic and geometric formulae
Unit 9 Fractions, decimals and percentages	Unit 9 Fractions and percentages	Unit 9 Probability
Unit 10: Transformations	Unit 10 Probability	Unit 10 Polygons and transformations

YEAR 4	YEAR 5
GCSE (9-1) Foundation	GCSE (9-1) Foundation
Year 10	Year 11
Unit 1 Number	Unit 16 Quadratic equations and graphs
Unit 2 Algebra	Unit 17 Perimeter, area and volume 2
Unit 3 Graphs, tables and charts	Unit 18 Fractions, indices and standard form
Unit 4 Fractions and percentages	Unit 19 Congruence, similarity and vectors
Unit 5 Equations, inequalities and sequences	Unit 20 More algebra
Unit 6 Angles	
Unit 7 Averages and range	
Unit 8 Perimeter, area and volume 1	

Unit 9 Graphs	
Unit 10 Transformations	
Unit 11 Ratio and proportion	
Unit 12 Right-angled triangles	
Unit 13 Probability	
Unit 14 Multiplicative reasoning	
Unit 15 Constructions, loci and bearings	

Units for both pathways are taught chronologically and spread evenly across the school year, allowing for revision time around the two assessment points in the Autumn and Summer.

New subject content in Key Stage 4 is delivered predominantly in year 10, thus allowing ample time for revision and exam practice in year 11.