

# Mathematics Learning Journey

The diagram below gives a basic outline of the main topic areas students will be studying as they progress from year 7 to year 11.

This is based on a typical middle ability pupil. The exact content covered will vary from this dependent on ability set; particularly for those studying foundation level GCSE.

Where main topic areas appear repeated, this is always done deliberately under the principle that we will first review, and then extend.

	MM1	MM2	L1	L2	S1	S2
<b>Year 7</b>	Whole numbers and decimals Fractions, decimals and percentages Whole number calculations	Measures, perimeter and area Expressions and formulae	Angles and 2D shapes Transformations and symmetry	Equations Graphs Statistics	Factors and multiples Decimal calculations Sequences	Ratio and proportion Probability
<b>Year 8</b>	Whole numbers and decimals Fractions, decimals and percentages Measures, perimeter and area	Angles and 2D shapes Expressions and formulae	Graphs Mental calculations Written and calculator methods	Statistics Transformations Constructions	Equations Sequences 3D shapes	Ratio and proportion Probability
<b>Year 9</b>	Factors and multiples Solving linear and quadratic equations Straight line coordinate geometry	Linear simultaneous equations Sequences Statistics	Fractions, decimals and percentages Indices and standard form	Measures, perimeter and area Probability Pythagoras' theorem	Angles Trigonometry	Ratio and proportion Transformations
<b>Year 10</b>	Indices and surds Solving linear and quadratic equations Straight line coordinate geometry	Non-linear graphs Simultaneous equations Congruence and similarity	3D shapes Pythagoras' theorem and trigonometry Vectors	Measures Upper and lower bounds	Statistics Probability Functions	Algebraic proportion Constructions Transformations
<b>Year 11</b>	Inequalities Algebra revision and extension Coordinate geometry revision and extension	Mock Examinations	Circle theorems Proof Iteration	Transformations of curves Kinematic graphs and pre-calculus		