



Big Ideas in Maths

Higher tier specific topics are in bold

Theme	Year 7	Year 8	Year 9	Year 10	Year 11
<p>Number and calculations</p> <p>Working confidently with numbers</p>	<ul style="list-style-type: none"> • Numbers and the number system • Calculations • Approximation • Estimating • Comparing fractions, decimals and percentages • Fractions, decimals and percentages • Equations 	<ul style="list-style-type: none"> • Numbers and the number system • Calculations • BIDMAS • Standard form • Fractions, decimals and percentages • Rounding • Basic decimals • Basic fractions • Sequences • Indices 	<ul style="list-style-type: none"> • Calculations • Indices • Roots • Fractions, decimals and percentages • Number • Equations • Inequalities 	<ul style="list-style-type: none"> • Number • Factors and multiples • Fractions, decimals and percentages • Rounding • Basic percentages • Indices • Standard form • Surds 	<ul style="list-style-type: none"> • Growth and decay • Algebraic fractions • Rates of change • Area under a curve • Numerical methods <p>Revise and consolidation of topics</p>
<p>Algebra and Graphs</p> <p>Using letters to solve problems</p>	<ul style="list-style-type: none"> • Algebra • Formulae • Number patterns 	<ul style="list-style-type: none"> • Algebra • Algebra • Number patterns • Equations • Graphs • Coordinates and graphs 	<ul style="list-style-type: none"> • Algebra • Algebra – Graphs • Equations • Inequalities 	<ul style="list-style-type: none"> • Algebra • Coordinates and graphs • Real life graphs • Algebra and graphs • Equations • Equation of a circle • Simultaneous equations • Sketching graphs • Inequalities 	<ul style="list-style-type: none"> • Simultaneous equations • Algebra and graphs • Quadratic equations • Quadratic graphs • Equations and graphs • Quadratic equations • Transforming graphs • Vectors <p>Revise and consolidation of topics</p>

Higher tier specific topics are in bold

Theme	Year 7	Year 8	Year 9	Year 10	Year 11
<p>Ratio, proportion and probability</p> <p>Understanding relationships between quantities</p>	<ul style="list-style-type: none"> Ratio Proportional reasoning 	<ul style="list-style-type: none"> Ratio Proportional reasoning Probability 	<ul style="list-style-type: none"> Proportion Probability 	<ul style="list-style-type: none"> Ratio and proportion Basic probability 	<ul style="list-style-type: none"> Direct and inverse proportion Growth and decay <p>Revision and consolidation of topics</p>
<p>Geometry and measure</p> <p>Shape, space and movement</p>	<ul style="list-style-type: none"> Shape Angles Measuring space Measuring and presentation of data 	<ul style="list-style-type: none"> Angles Bearings Angle properties Measuring space Construction 	<ul style="list-style-type: none"> Construction Calculating space Congruent triangles Similar triangles Pythagoras 	<ul style="list-style-type: none"> Angles and bearings Perimeter and area Circles Polygons Transformations Congruency and similarity 3D shapes Measures Construction and loci Volume 	<ul style="list-style-type: none"> Pythagoras Trigonometry Vectors Sine rule Cosine rule Circle theorems <p>Revision and consolidation of topics</p>
<p>Statistics</p> <p>Collecting and understanding data</p>	<ul style="list-style-type: none"> Measuring and presentation of data 	<ul style="list-style-type: none"> Measuring and presentation of data 	<ul style="list-style-type: none"> Probability Statistics 	<ul style="list-style-type: none"> Collecting and representing data Sequences Scatter graphs 	<ul style="list-style-type: none"> Statistical measures <p>Revision and consolidation of topics</p>