



# Mathematics Curriculum Overview — Key Stage 3



Year	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
7	<p><b>Topic:</b> Algebraic Thinking</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on sequences, algebraic notation and equality and equivalence.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Place Value and Proportion</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of place value and ordering of integers and decimals. Students will also focus on fraction, decimal and percentage equivalence.</p> <p><b>Outcome:</b> End of block assessment and autumn assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Application of Number</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of how to solve problems using addition, subtraction, multiplication and division. Students will also focus on fractions and percentages of amounts.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Direct Number</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of using operations and equations with directed number.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 3 weeks</p> <p><b>Topic:</b> Fractional Thinking</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of working with fractions, to include adding and subtracting fractions.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 3 weeks</p>	<p><b>Topic:</b> Line and Angles</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of constructing, measuring and using geometric notation. Students will also focus on developing geometric reasoning.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Reasoning with Number</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of number sense, probability, prime numbers and proof.</p> <p><b>Outcome:</b> End of block assessment and summer assessment.</p> <p><b>Duration:</b> 6 weeks</p>



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<p><b>8</b></p>	<p><b>Topic:</b> Proportion Reasoning</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of ratio and scale, multiplicative change and multiplying/dividing fractions.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Representations</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of working in the Cartesian plane, representing data and tables &amp; probability.</p> <p><b>Outcome:</b> End of block assessment and autumn assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Algebraic Techniques</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> students will develop their understanding of equations and inequalities, sequences and indices.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Developing Numbers</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of fractions and percentages, standard index form and number sense.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Developing Geometry</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of angles in parallel lines and polygons, area of trapeziums and circles, line symmetry and reflection.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Reasoning with Data</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of the data handling cycle and measures of location.</p> <p><b>Outcome:</b> End of block assessment and summer assessment.</p> <p><b>Duration:</b> 6 weeks</p>
<p><b>9</b></p>	<p><b>Topic:</b> Reasoning with Algebra</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding of straight-line graphs, forming and solving equations and testing conjectures.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Constructing in 2 and 3 Dimensions</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on three dimensional shapes. Students will also focus on constructions and congruency.</p> <p><b>Outcome:</b> End of block assessment and autumn assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Reasoning with Numbers</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on reasoning number, using percentages and finance involving maths.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Reasoning with Geometry</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on deduction, rotation and translation, Pythagoras' theorem and trigonometry.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Reasoning with Proportion</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on enlargement and similarity, solving ratio and proportion problems.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Representations</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p><b>Focus:</b> Students will develop their understanding on probability, solving problems using graphs, tables and algebra.</p> <p><b>Outcome:</b> End of block assessment and summer assessment.</p> <p><b>Duration:</b> 6 weeks</p>



# Mathematics Curriculum Overview — Key Stage 4

10	<b>Topic:</b> Similarity	<b>Topic:</b> Developing Algebra	<b>Topic:</b> Geometry	<b>Topic:</b> Proportions and Proportional Change	<b>Topic:</b> Delving into Data	<b>Topic:</b> Using Number
	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.	<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.
	<b>Focus:</b> Students will develop their understanding on congruency, similarity and enlargement. Students will also focus on trigonometry.	<b>Focus:</b> Students will develop their understanding of representing solutions of equations and inequalities. Students will also focus on simultaneous equations.	<b>Focus:</b> Students will develop their understanding on angles and bearings, working with circles and vectors.	<b>Focus:</b> Students will develop their understanding on ratios and fractions, percentages to include interest and probability.	<b>Focus:</b> Students will develop their understanding of collecting, representing and interpreting data.	<b>Focus:</b> Students will develop their understanding on non-calculator methods, types of number, sequences, indices and roots.
	<b>Outcome:</b> End of block assessment.	<b>Outcome:</b> End of block assessment and autumn assessment.	<b>Outcome:</b> End of block assessment.	<b>Outcome:</b> End of block assessment.	<b>Outcome:</b> End of block assessment.	<b>Outcome:</b> End of block assessment.
	<b>Duration:</b> 7 weeks	<b>Duration:</b> 7 weeks	<b>Duration:</b> 6 weeks	<b>Duration:</b> 6 weeks	<b>Duration:</b> 6 weeks	<b>Duration:</b> 3 weeks
						<b>Topic:</b> Expressions
					<b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.	
					<b>Focus:</b> Students will develop their understanding on manipulating expressions.	
					<b>Outcome:</b> End of block assessment and summer assessment.	
					<b>Duration:</b> 3 weeks	



# Mathematics Curriculum Overview — Key Stage 4

<b>11</b>	<p><b>Topic:</b> Graphs</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p><b>Focus:</b> Students to further develop their understanding of gradients and lines, non-linear graphs and using graphs to find information.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Algebra</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p><b>Focus:</b> Students to further develop their understanding of expanding and factorising, rearranging formula and functions.</p> <p><b>Outcome:</b> End of block assessment, mock exams and analysis.</p> <p><b>Duration:</b> 7 weeks</p>	<p><b>Topic:</b> Reasoning</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p><b>Focus:</b> Students to further develop their understanding of multiplicative, geometric and algebraic reasoning.</p> <p><b>Outcome:</b> End of block assessment.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Revision and Exam Preparation</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p><b>Focus:</b> Recapping key topics.</p> <p><b>Outcome:</b> Mock exams and analysis.</p> <p><b>Duration:</b> 6 weeks</p>	<p><b>Topic:</b> Revision and Exam Preparation</p> <p><b>Resources:</b> CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p><b>Focus:</b> Recapping key topics.</p> <p><b>Outcome:</b> Past paper practice.</p> <p><b>Duration:</b> 6 weeks</p>	
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