



Mathematics Curriculum Overview — Key Stage 3

Year	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
7	<p>Topic: Algebraic thinking</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p>Focus: Students will develop their understanding on sequences, algebraic notation and equality and equivalence.</p> <p>Outcome: End of block assessment.</p> <p>Duration: 7 weeks</p>	<p>Topic: Place value and Proportion</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p>Focus: 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>Outcome: End of block assessment and autumn assessment.</p> <p>Duration: 7 weeks</p>	<p>Topic: Application of number</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p>Focus: 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>Outcome: End of block assessment</p> <p>Duration: 6 weeks</p>	<p>Topic: Direct number</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p>Focus: Students will develop their understanding of using operations and equations with directed number.</p> <p>Outcome: End of block assessment.</p> <p>Duration: 3 weeks</p> <p>Topic: Fractional thinking</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths.</p> <p>Focus: Students will develop their understanding of working with fractions, to include adding and subtracting fractions.</p> <p>Outcome: End of block assessment and spring assessment.</p> <p>Duration: 3 weeks</p>	<p>Topic: Line and angles</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding of constructing, measuring and using geometric notation. Students will also focus on developing geometric reasoning.</p> <p>Outcome: End of block assessment</p> <p>Duration: 6 weeks</p>	<p>Topic: Reasoning with number</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding of number sense, probability, prime numbers and proof.</p> <p>Outcome: End of block assessment and summer assessment</p> <p>Duration: 6 weeks</p>



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



Mathematics Curriculum Overview — Key Stage 4

10	<p>Topic: Similarity</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding on congruency, similarity and enlargement. Students will also focus on trigonometry.</p> <p>Outcome: End of block assessment.</p> <p>Duration: 7 weeks</p>	<p>Topic: Developing Algebra</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding of representing solutions of equations and inequalities. Students will also focus on simultaneous equations.</p> <p>Outcome: End of block assessment and autumn assessment.</p> <p>Duration: 7 weeks</p>	<p>Topic: Geometry</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding on angles and bearings, working with circles and vectors.</p> <p>Outcome: End of block assessment.</p> <p>Duration: 6 weeks</p>	<p>Topic: Proportions and Proportional Change</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding on ratios and fractions, percentages to include interest and probability.</p> <p>Outcome: End of block assessment and spring assessment.</p> <p>Duration: 6 weeks</p>	<p>Topic: Delving into Data</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding of collecting, representing and interpreting data.</p> <p>Outcome: End of block assessment.</p> <p>Duration: 6 weeks</p>	<p>Topic: Using Number</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths.</p> <p>Focus: Students will develop their understanding on non-calculator methods, types of number, sequences, indices and roots.</p> <p>Outcome: End of block assessment</p> <p>Duration: 3 weeks</p> <p>Topic: Expressions</p> <p>Resources: CGP textbooks, Sparx Maths, Exam pro, Corbett Maths, On Maths, Maths Made Easy.</p> <p>Focus: Students will develop their understanding on manipulating expressions.</p> <p>Outcome: End of block assessment and summer assessment.</p> <p>Duration: 3 weeks</p>
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Mathematics Curriculum Overview — Key Stage 4

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