



Mathematics Curriculum Overview — Key Stage 3



	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Year 7	<p>Topic: Algebraic thinking</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding on sequences, algebraic notation and equality and equivalence.</p> <p>Outcome: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Place value and Proportion</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap and Autumn Assessment</p> <p>Duration: 20 lessons</p>	<p>Topic: Application of number</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Direct number</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding of using operations and equations with directed number</p> <p>Outcome: Topic recap</p> <p>Duration: 12 lessons</p> <p>Topic: Fractional thinking</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap and Spring Assessment</p> <p>Duration: 8 lessons</p>	<p>Topic: Line and angles</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 16 lessons</p>	<p>Topic: Reasoning with number</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding of number sense, probability, prime numbers and proof.</p> <p>Outcome: Topic recap and Summer Assessment</p> <p>Duration: 20 lessons</p> <p>Topic: Finance Education</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, Natwest Money Sense</p> <p>Focus: Students will develop their understanding of managing money long term and financial choices</p> <p>Duration: 2/3 lessons</p>



Mathematics Curriculum Overview — Key Stage 3



	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Year 8	<p>Topic: Proportion Reasoning</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Representations</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap and Autumn assessment</p> <p>Duration: 20 lessons</p>	<p>Topic: Algebraic Techniques</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: students will develop their understanding of equations and inequalities, sequences and indices.</p> <p>Outcome: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Developing Numbers</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap and Spring assessment</p> <p>Duration: 20 lessons</p>	<p>Topic: Developing Geometry</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 16 lessons</p>	<p>Topic: Reasoning with Data</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding of the data handling cycle and measures of location.</p> <p>Outcome: Topic recap and Summer assessment</p> <p>Duration: 20 lessons</p> <p>Topic: Finance Education</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, Natwest Money Sense</p> <p>Focus: Students will develop their understanding of consumer rights and risks involved with financial choices</p> <p>Duration: 2/3 lessons</p>



Mathematics Curriculum Overview — Key Stage 3



	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Year 9	<p>Topic: Reasoning with Algebra</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Constructing in 2 and 3 Dimensions</p> <p>Resources: CGP textbooks, Maths Watch, 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: Topic recap</p> <p>Duration: 20 lessons</p>	<p>Topic: Reasoning with Numbers</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding on reasoning number, using percentages and finance involving maths.</p> <p>Outcome: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Reasoning with Geometry</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding on deduction, rotation and translation and Pythagoras' theorem.</p> <p>Outcome: Topic recap</p> <p>Duration: 20 lessons</p>	<p>Topic: Reasoning with Proportion</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding on enlargement and similarity, solving ratio and proportion problems.</p> <p>Outcome: Topic recap</p> <p>Duration: 16 lessons</p>	<p>Topic: Representations</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths</p> <p>Focus: Students will develop their understanding on solving problems using graphs, tables and algebra.</p> <p>Outcome: Topic recap</p> <p>Duration: 20 lessons</p> <p>Topic: Finance Education</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, Natwest Money Sense</p> <p>Focus: Students will develop their understanding of personal finance and bank statements/pay slips</p> <p>Duration: 2/3 lessons</p>



Mathematics Curriculum Overview — Key Stage 4



	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Year 10	<p>Topic: Similarity</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Students will develop their understanding on congruency, similarity and enlargement. Students will also focus on trigonometry.</p> <p>Outcome: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Developing Algebra</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</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: Topic recap</p> <p>Duration: 20 lessons</p>	<p>Topic: Geometry</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Students will develop their understanding on angles and bearings, working with circles and vectors.</p> <p>Outcome: Topic recap</p> <p>Duration: 18 lessons</p>	<p>Topic: Proportions and Proportional Change</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Students will develop their understanding on ratios and fractions, percentages to include interest and probability.</p> <p>Outcome: Topic recap</p> <p>Duration: 20 lessons</p>	<p>Topic: Delving into Data</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Students will develop their understanding of collecting, representing and interpreting data.</p> <p>Outcome: Topic recap</p> <p>Duration: 16 lessons</p>	<p>Topic: Using Number</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Students will develop their understanding on using non calculator methods, types of number and sequences, indices and roots.</p> <p>Outcome: Topic recap</p> <p>Duration: 20 lessons</p> <p>Topic: Finance Education</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, Natwest Money Sense</p> <p>Focus: Students will develop their understanding of the cost of living and how to save for their future</p> <p>Duration: 2/3 lessons</p>



Mathematics Curriculum Overview — Key Stage 4 (Foundation Tier)



Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
Year 11	<p>Topic: Algebra</p> <ul style="list-style-type: none"> Equations and inequalities Quadratics Simultaneous equations <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Geometry</p> <ul style="list-style-type: none"> Pythagoras Theorem Trigonometry (missing sides and angles) <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Number</p> <ul style="list-style-type: none"> Percentages Power, Roots and Standard Form <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Ratio</p> <ul style="list-style-type: none"> Ratio Proportion <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Algebra</p> <ul style="list-style-type: none"> Trial and improvement $Y = mx + c$, drawing graphs (linear and quadratic), gradients, equation of a line <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Probability</p> <ul style="list-style-type: none"> Two outcomes Tree diagrams Venn diagrams <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Geometry</p> <ul style="list-style-type: none"> Area of shapes (parallelograms, trapeziums) Area of compound shapes Area and circumference of a circle <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Construction and Loci</p> <ul style="list-style-type: none"> Constructing angles and triangles Constructing angles and bisectors. Drawing and solving loci problems Congruency and similar shapes <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Revision and exam preparation.</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Recapping key topics</p> <p>Duration: 12 lessons</p>



Mathematics Curriculum Overview — Key Stage 4 (Higher Tier)



Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
Year 11	<p>Topic: Algebra</p> <ul style="list-style-type: none"> Quadratics Algebraic fractions Rearranging formula Iteration <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Geometry</p> <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Number</p> <ul style="list-style-type: none"> Sequences Percentages Ratio and Proportion <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Statistics and Probability</p> <ul style="list-style-type: none"> AND / OR rules Combined events Venn Diagrams <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Geometry</p> <ul style="list-style-type: none"> Arcs and Sectors Circle theorems Similar shapes Transformations Vectors <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Algebra</p> <ul style="list-style-type: none"> Graphs (linear and quadratic) Equation of a line Finding formulae Simultaneous equations <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Number</p> <ul style="list-style-type: none"> Indices (negative and fractional) Surds Rationalising the denominator <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Geometry</p> <ul style="list-style-type: none"> Vectors (add and subtract) Pythagoras (including 3D) Trigonometry Using trigonometry to solve problems Trig graphs Sin and Cos graphs Trig values <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Topic: Revision and exam preparation.</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy</p> <p>Focus: Recapping key topics</p> <p>Duration: 12 lessons</p>



Mathematics Curriculum Overview — Key Stage 4 (Higher Tier, Set 1)



Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
Year 11	<p>Topic: Algebra</p> <ul style="list-style-type: none"> Quadratics (factorising and solving including completing the square and Quadratic formula, turning points) Inequalities (factorising and solving, representing) Transform graphs Further Maths: factorise complex expressions, factor theorem, completing the square, maxima/minima, solve complex equations, solutions of linear/quadratic inequalities <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Statistics</p> <ul style="list-style-type: none"> Averages (inc. grouped tables) Sampling Scatter diagrams Box plots <p><i>Continued on next page...</i></p>	<p>Topic: Algebra</p> <ul style="list-style-type: none"> Graphs (linear and quadratic) Equation of line (inc. through two points, from gradient/intercept) Parallel/perpendicular lines Equation of a circle Graphical inequalities Further Maths: Sketch a curve with maxima/minima, draw and sketch functions, equation of a line, equation of a circle, equation of a tangent <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Topic: Number</p> <ul style="list-style-type: none"> Percentages Ratio (inc. linear functions) Fractions Direct/inverse proportion <p>Outcome: Topic Recap</p> <p><i>Continued on next page...</i></p>	<p>Topic: Geometry</p> <ul style="list-style-type: none"> Compound measures Area under graphs Distance-time/Velocity-time graphs Trigonometry (inc. bearings) Rates of change from gradients of tangents and chords Sin/cos/tan graphs Cubic, reciprocal and exponential graphs <p>Outcome: Topic Recap</p> <p>Duration: 12 lessons</p> <p>Topic: Further Maths</p> <ul style="list-style-type: none"> Matrices Differentiation 	<p>Topic: Focus topics in response to feedback from Sept and Dec exams, Topic Recap, FOCUS starters and general identified areas of need (inc. further maths topics)</p>	<p>Topic: Revision and exam preparation.</p> <p>Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, Seneca Learning, On Maths, Maths Made Easy</p> <p>Focus: Recapping key topics</p> <p>Duration: 12 lessons</p>



Mathematics Curriculum Overview — Key Stage 4 (Higher Tier, Set 1)



Resources: CGP textbooks, Maths Watch, Exam pro, Corbett Maths, On Maths, Maths Made Easy

	<ul style="list-style-type: none">• Cumulative frequency diagrams• Histograms <p>Outcome: Topic Recap</p> <p>Duration: 8 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>	<p>Duration: 5 lessons</p> <p>Topic: Geometry</p> <ul style="list-style-type: none">• Area/perimeter of shapes (inc. sectors)• Arc length• Area/volume of similar shapes• Constructions• Loci• Transformations <p>Outcome: Topic Recap</p> <p>Duration: 10 lessons</p> <p>Focus: Students will recap the above topics and will develop their understanding of answering exam style questions.</p>			
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