

KS3 Mathematics is devised according to the OAK Curriculum.  
KS4 Mathematics is devised according to the AQA curriculum.

Year	Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Develop foundational knowledge of place value, number lines, addition and subtraction, multiplication and division, Powers, Roots, Primes, negative numbers, fractions, and percentages. Practice estimating and calculating.	<b>Place Value &amp; Number System</b> Develop knowledge of and ability to expand numbers, order integers, compare decimals, multiply and divide by positive and negative numbers.	<b>Addition &amp; Subtraction</b> Understand number bonds, perimeter, angles, mean and range; develop ability to interpret word problems. Begin multiplication work.	<b>Multiplication &amp; Division</b> Understand inverses and how to divide decimals. Understand area & Volume. <b>Power &amp; Roots</b> – understand square & cube roots; and Prime factors.	<b>Order of Operations</b> Understand order of operations with the four rules, including indices, brackets, integers, and decimals. Begin being able to order negative numbers.	<b>Negative Numbers</b> Understand addition, subtraction, and division of negative numbers. Begin algebraic thinking by simplifying and solving 'unknown value'.	<b>Fractions &amp; Percentages</b> Know how to multiply and divide fractions. Know how to express one number as a %, increase & decrease. Introduction to using a calculator.
	<b>Assessments:</b>	GL Progress Test – Maths A	Learning Check 1: Summative Assessment 1	Learning Check 2: Spring 1 Topics	Learning Check 3: Spring 2 Topics	Learning Check 4: Summer 1 Topics	GL Progress Test – Maths B Summative Assessment 2
	<b>Extra-Curricular:</b>	Maths Club – Lunchtime	Maths Club – Lunchtime	Maths Club – Lunchtime	Maths Club – Lunchtime	Maths Club – Lunchtime	Maths Club – Lunchtime
	<a href="#">Unit: Place value   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Comparing and ordering fractions and decimals (positive and negative)   KS3 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Perimeter and area   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Arithmetic procedures with integers and decimals   KS3 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Lesson: Securing understanding of factors, multiples, squares and cubes   KS3 Maths   Oak National Academy (thenational.academy)</a>	<ul style="list-style-type: none"> <li><a href="#">Unit: Arithmetic procedures with integers and decimals   KS3 Maths   Oak National Academy (thenational.academy)</a></li> <li><a href="#">Unit: Comparing and ordering fractions and decimals (positive and negative)   KS3 Maths   Oak National Academy (thenational.academy)</a></li> <li><a href="#">Unit: Understanding multiplicative relationships: percentages and proportionality   KS3 Maths   Oak National Academy (thenational.academy)</a></li> </ul>			
8	Expand on foundational knowledge by developing	<b>Decimals &amp; Rounding</b>	<b>Constructing &amp; Expressions</b>	<b>Equations &amp; Reasoning</b>	<b>Polygons &amp; Data</b>	<b>Area &amp; Ratio</b>	<b>The Cartesian Grid</b>

	ability to use a protractor and compass. Know how to manipulate and simplify expressions. Understand linear equations, reasoning, polygons, angles, discrete data & the Cartesian Grid.	Develop ability to expand and round decimals as well as multiply and divide decimals. Understand rounding to the nearest, to significant figures and mixed rounding.	Use a compass to construct triangles, bisecting and perpendicular angles. Know how to add, subtract, multiply & divide expressions.	Develop ability to solve multi-step equations with unknowns on both sides. Understand double number lines, ratio tables and inverse proportion.	Understand angles in parallel lines. Develop ability to solve geometric problems with equations. Introduce statistics, Pie Charts, Mean, Median, Mode.	Understand perimeter and area. Develop ability to calculate area of triangles, parallelograms, trapeziums, and polygons. Interpret & simplify ratios.	Understand X and Y axis, including in a quadrant. Understand coordinates and coordinate plotting and interpreting coordinates, including positive and negative.
	<b>Assessments:</b>	Learning Check 1: Autumn 1 Topics	Learning Check 2: Summative Assessment 1	Learning Check 3: Spring 1 Topics	Learning Check 4: Spring 2 Topics	Learning Check 5: Summer 1 Topics	GL Progress Test – Maths part 1 & 2 Summative Assessment 2
	<b>Extra-Curricular:</b>	Maths Competition	Maths Competition	Maths Competition	Maths Competition	Maths Competition	Maths Competition
	<b>C6</b>	<a href="#">Unit: Decimals   KS2 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Rounding integers to significant figures   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Constructions   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Expressions and equations   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Unit: Direct and indirect proportion   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Angles and parallel lines   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Solving geometric problems using linear equations   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Unit: Percentages and statistics   KS2 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Perimeter and area   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Unit: Ratio   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Coordinates   KS3 Maths   Oak National Academy (thenational.academy)</a>
9	Strengthen foundational knowledge of measuring and construction, polygons and angles, reasoning, and discrete data. Develop knowledge of inequalities, standard form, graphs, congruency, and Pythagoras.	<b>Constructing &amp; Inequalities</b> Construct triangles and bisecting angles. Understand Loci and perpendicular. Know how to form and solve inequalities, including compound inequalities.	<b>Form, Graphs, Angles</b> Calculate with standard form. Understand distance-time & speed-time graphs. Find average speed. Know quadrilaterals and symmetry.	<b>Graphs &amp; Equations</b> Practice plotting graphs, including quadratic. Interpret graphs & tables. Know gradient and intercept. Know how to solve simultaneous equations using a graph.	<b>Congruence &amp; Similarity</b> Know congruency, congruent triangles, tessellation, and column vectors. Know rotational and reflective symmetry; linear & area scale.	<b>Triangles &amp; Reasoning</b> Know how to find the shorter side and perimeter. Understand Isosceles. Identify proportions. Explore exchange rates and enlarging shapes.	<b>Circles &amp; Data</b> Discover Pi, find circumferences and areas. Draw and analyse Pie Charts. Compare data and explore misleading data. Use mean, median and mode.
	<b>Assessments:</b>	Learning Check 1: Autumn 1 Topics	Learning Check 2:	Learning Check 3: Spring 1 Topics	Learning Check 4: Spring 2 Topics	Learning Check 5: Summer 1 Topics	GL Progress Test –

			Summative Assessment 1				Maths part 1 & 2 Summative Assessment 2
	<b>Extra-Curricular:</b>	Maths Competition	Maths Competition	Maths Competition	Maths Competition	Maths Competition	Maths Competition
	<b>C6</b>	<a href="#">Lesson: Constructing triangles   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Perpendicular bisector of a line segment   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Inequalities and substitution (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Forming and solving inequalities (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Lesson: Sorting large numbers   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Multiplying and dividing in standard form   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Addition and Subtraction in standard form   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Lines of symmetry   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Comparing quadrilaterals   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Lesson: Representing simultaneous equations graphically (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: <math>y = mx + c</math>   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Drawing Quadratics Video – Corbettmaths (corbettmaths.com)</a>	<a href="#">Lesson: Congruence and triangles (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Congruence and triangles (Part 2)   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Translating objects   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Lesson: Length of the hypotenuse   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Length of a shorter side   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Multiplicative relationships and direct proportion   KS3 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Lesson: Circumference of a circle   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Area of a circle   KS3 Maths   Oak National Academy (thenational.academy)</a>  <a href="#">Lesson: Comparing data   KS3 Maths   Oak National Academy (thenational.academy)</a>
10	Become competent in Mathematics necessary for real-life scenarios and the working world, including angles, fractions, decimals, rounding, statistics, and measuring.	Consolidate knowledge and application of angles, diagrams, bearings, factors and multiples, basic algebra, fractions, and linear graphs.	Consolidate knowledge and application of decimals, rounding, collecting & representing data, sequencing.	Consolidate knowledge and application of percentages, area, perimeter, circumference, and real-life graphs.	Consolidate knowledge and application of ratio, proportion, polygons, equations, indices, and standard form.	Consolidate knowledge and application of probability, transformation, congruence, similarity and 2D & 3D shapes.	Consolidate knowledge and application of percentages, measures, statistics, constructions and Loci.
	<b>Assessments:</b>	Learning Check 1: Autumn 1 Topics	Learning Check 2: Autumn 2 Topics	Learning Check 3: Summative Assessment 1	Learning Check 4: Spring 2 Topics	Learning Check 5: Summer 1 Topics	MOCK EXAMS
	<b>Extra-Curricular:</b>	Further Maths Club Maths Competitions	Further Maths Club Maths Competitions	Further Maths Club Maths Competitions	Further Maths Club Maths Competitions	Further Maths Club Maths Competitions	Further Maths Club Maths Competitions
11	Confidently know and independently apply knowledge of	Revise knowledge of and practice application of probability, volume, and	Revise knowledge of and practice application of inequalities, Pythagoras'	Revise knowledge of and practice application of algebra and graphs,	Revise knowledge of and practice application of trigonometry, solving	Revise knowledge of and practice application of growth	

	mathematics for real-life scenarios and the working world. Be mathematically ready for GCSE exams and achieve mathematical success to enter college / Sixth Form.	scatter graphs. Expand algebraic knowledge of quadratics and rearranging formulae.	theorem, simultaneous equations, algebra, and graphs. HIGHER tier: further equations.	sketching graphs, direct and inverse proportions. HIGHER tier: trigonometry.	quadratic equations, and quadratic graphs. HIGHER tier: vectors, sines and cosine rules.	& decay, and vectors. HIGHER tier: gradients, pre-calculus and algebraic fractions. Plus, exam preparation.	
	<b>Assessments:</b>	Learning Check 1: Autumn 1 Topics	MOCK EXAMS	Learning Check 2: Spring 1 Topics	Learning Check 3: MOCK EXAMS	GCSE exams begin	
	<b>Extra-Curricular</b>	After School Intervention	After School Intervention	After School Intervention	After School Intervention	After School Intervention	
	<b>C6:</b> <a href="#">Unit: Arithmetic procedures: index laws   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Rounding, estimation and bounds   KS4 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: 2D and 3D shape: compound shapes   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Graphical representations of data: scatter graphs and time series   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Algebraic manipulation   KS4 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Simultaneous equations: 2 variables   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Algebraic fractions   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Graphical representations of data: scatter graphs and time series   KS4 Maths   Oak National Academy (thenational.academy)</a>	<a href="#">Unit: Linear graphs   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Unit: Non-linear graphs   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Trigonometry Introduction Video – Corbettmaths</a> <a href="#">Trigonometry – Missing sides Video – Corbettmaths</a> <a href="#">Trigonometry – Missing Angles Video – Corbettmaths</a>	<a href="#">3D Trigonometry Video – Corbettmaths</a> <a href="#">Unit: Algebraic manipulation   KS4 Maths   Oak National Academy (thenational.academy)</a> <a href="#">Sine Rule – Missing Sides Video – Corbettmaths</a> <a href="#">Sine Rule Angles Video – Corbettmaths</a> <a href="#">Vectors Video – Corbettmaths</a>		