

## Year 9-11 Curriculum Maps

### 3 Pathways:

	Who is it suitable for?	What does it cover?	Where does it lead to at the end of Year 9?
<b>Core Curriculum</b>	Students targeting Grades 3-6	Foundation Content	Intermediate GCSE Curriculum (Overlapping content) → 3, 4, 5, 6  OR Foundation GCSE Curriculum OR Higher GCSE Curriculum
<b>Higher Curriculum</b>	Students targeting Grades 6-9	Overlapping Foundation and Higher Tier content	Higher GCSE Curriculum (mostly Higher-only content) → 6, 7, 8, 9
<b>Support Curriculum</b>	Students targeting Grades 1 - 3	Consolidation of Foundation Fundamentals	Foundation Curriculum (mostly Foundation-only content) → 1, 2, 3

## Core Pathway

Year 9

Core Curriculum	Autumn Term	<p><b>Number: Calculation</b> Place Value; Rounding (powers of 10, dp, sf) Ordering integers, decimals Four operations – whole numbers and decimals Order of operations Primes, factors, multiples, HCF, LCM, product of primes Calculating with powers and roots</p> <p style="text-align: right;"><b>20</b></p>	<p><b>Geometry: Shape</b> Properties of shapes (2D and 3D) Basic angle rules Angles on parallel lines Angles in polygons</p>	<p><b>Algebra: Simplifying</b> Collecting like terms Expanding single brackets, Factorising Using index laws Writing and representing simple inequalities</p>	<p><b>Number: FDP</b> Fractions; Equivalent Fractions Fraction Arithmetic Converting between FDP Ordering fractions, decimals and percentages Express amounts as fractions/% Terminating decimals Percentages of amounts Percentage change problems</p>
	Spring Term	<p><b>Number and Algebra: Sequences</b> Generating sequences Nth terms of linear sequences</p>	<p><b>Algebra: Solving</b> Solving linear equations Formulae – substitution, rearranging, writing</p>	<p><b>Geometry: Measuring</b> Perimeter including circumference Area – rectangles, parallelograms, trapezia, circles Volume of cuboids, right prisms and cylinders</p>	<p><b>R&amp;P: Scaling</b> Ratio – simplifying, dividing in a given ratio, solving problems Scale factors Similarity Direct and inverse proportion problems Standard Units Converting between units Compound Units</p>
	Summer Term	<p><b>Algebra: Graphing</b> Coordinates Horizontal and vertical graphs Straight line graphs Simple gradient and intercept Solving equations graphically Real life graphs including kinematics</p>	<p><b>Geometry: Visualising</b> Bearings Constructions Reflection, Rotation, Translation, Enlargement Congruence</p>	<p><b>Statistics: Probability</b> Calculating simple probabilities</p>	<p><b>Statistics: Data</b> Construct and interpret charts, tables and diagrams Scatter graphs Central tendency and spread</p>

Year 10/11

Core Curriculum	Autumn Term	<b>Number: Calculation</b> Rounding and truncation Limits of accuracy Calculating with roots and integer indices Standard Form Calculating with $\pi$ Terminating decimals	<b>Geometry: Visualising</b> Circle Properties Constructions Loci Plans and Elevations	<b>Algebra: Simplifying</b> Expanding and factorising double brackets Proving equivalence Identities Writing expressions and formulae	<b>R&amp;P: Scaling</b> Percentage Change Original amounts Compound interest Direct and inverse proportion problems Compound Measures/Units Applied similarity/congruence
	Spring Term	<b>Number and Algebra: Pattern Sniffing</b> Fibonacci sequences Quadratic sequences (basic) Geometric progressions (basic)	<b>Algebra: Solving 1</b> Linear Equations Linear Inequalities Formulae – substitution, rearranging	<b>Geometry: Measuring</b> Pythagoras Angle facts and geometric reasoning Sectors/Arcs Volume and SA of prisms and cylinders	<b>Geometry: Proving</b> Congruence Angle Proofs
	Summer Term	<b>Algebra: Graphing</b> $y=mx+c$ Parallel lines Equation from 2 points Quadratic graphs and roots Sketch other functions (cubic, reciprocal) Graphs of non-standard functions Kinematics	<b>Algebra Solving 2</b> Simultaneous Equations Quadratic Equations Graphical solutions for equations	<b>Statistics: Probability</b> Tree Diagrams Combined Events Experimental vs theoretical probability	<b>Statistics: Data</b> Construct and interpret charts Lines of best fit Correlations Construct and interpret cumulative frequency and boxplots Compare distributions using central tendency and spread Sampling
	Autumn Term	<b>Geometry: Shape</b> Pythagoras (3D and more complex contexts) Trigonometry in right-angled triangles Circle Theorems	<b>R&amp;P: Growth</b> Compound Interest Growth and Decay problems Equations/graphs of direct and inverse proportion	<b>Geometry: Measuring2</b> Surface area and volume of spheres, cones, pyramids Congruence and similarity	

## Higher Pathway

Year 9:

Higher Curriculum Year 9	Autumn Term	<b>Number: Calculation</b> Rounding and truncation Limits of accuracy Calculating with roots and integer indices Standard Form Calculating with $\pi$ Terminating decimals  14	<b>Geometry: Visualising</b> Circle Properties Constructions Loci Plans and Elevations	<b>Algebra: Simplifying</b> Expanding and factorising double brackets Proving equivalence Identities Writing expressions and formulae	<b>R&amp;P: Scaling</b> Percentage Change Original amounts Direct and inverse proportion problems Compound Measures/Units Applied similarity/congruence
	Spring Term	<b>Number and Algebra: Sequences</b> Fibonacci sequences Quadratic sequences (basic)	<b>Algebra: Solving 1</b> Linear Equations Linear Inequalities Formulae – substitution, rearranging	<b>Geometry: Measuring</b> Pythagoras Angle facts and geometric reasoning Sectors/Arcs Volume and SA of prisms and cylinders	<b>Geometry: Proving</b> Congruence Angle Proofs
	Summer Term	<b>Algebra: Graphing</b> $y=mx+c$ Parallel lines Equation from 2 points Quadratic graphs and roots Sketch other functions (cubic, reciprocal) Graphs of non-standard functions Kinematics	<b>Algebra Solving 2</b> Simultaneous Equations Quadratic Equations Graphical solutions for equations	<b>Statistics: Probability</b> Tree Diagrams Combined Events Experimental vs theoretical probability	<b>Statistics: Data</b> Construct and interpret charts Lines of best fit Correlations

Year 10/11:

<b>Higher Curriculum</b>	<b>Autumn Term</b>	<b>Number: Calculation</b> Limits and bounds Calculating with roots and fractional indices Estimating powers and roots Calculating with surds Rationalising the denominator	<b>Geometry: Shape 1</b> Pythagoras (3D and more complex contexts) Trigonometry in right-angled triangles Circle Theorems	<b>Algebra: Simplifying</b> Algebraic fractions Expanding two binomials (including surds/fractions) Expanding three binomials	<b>R&amp;P: FDP</b> Recurring decimals and equivalent fractions Growth and decay problems	
	<b>Spring Term</b>	<b>Number and Algebra: Pattern Sniffing</b> Quadratic sequences Geometric progressions	<b>Algebra: Solving 1</b> Quadratic Equations Simultaneous Equations (one quadratic) Linear Inequalities (2 variables) Using formulae	<b>Geometry: Measuring</b> Surface area and volume of spheres, cones, pyramids Congruence and similarity – impact of area and volume	<b>Algebra: Graphing</b> $y=mx+c$ and perpendicular lines Equation of a circle Equation of a tangent to a circle Graphs of non-standard functions Kinematics Gradient at point on curve Gradients of graphs Areas under graphs	
	<b>Summer Term</b>	<b>Geometry: Visualising</b> Similar shapes and enlargement (all scale factors) Invariances under reflection, rotation and translation Vector addition, subtraction and scalar multiplication Vectors - proof	<b>R&amp;P: Proportion</b> Direct and Inverse proportion (equations and graphs)	<b>Statistics: Probability</b> Conditional Probability	<b>Statistics: Data</b> Construct and interpret: cumulative frequency graphs, boxplots Compare distributions using central tendency and spread Sampling Histograms	
	<b>Autumn Term</b>	<b>Algebra: Solving 2</b> Solve quadratic equations by factorising ( $ax^2 + bx + c$ ) Completing the square Quadratic inequalities in one variable Solve quadratic equations using the quadratic Formula Iteration	<b>Geometry: Shape 2</b> Trigonometry in 3D Trigonometry in non-right angled triangles	<b>Algebra: Graphing 2</b> Quadratic functions – turning points Inverse functions Composite functions Translations and reflections of functions Graphs of exponential functions Graphs of trigonometric functions Instantaneous rate of change General iterative processes		

## Support Pathway

Year 9

Support Curriculum	Autumn Term	<p><b>Number: Calculation</b> Place Value Rounding (powers of 10, dp) Ordering integers, decimals Negative Numbers Four operations – whole numbers and decimals</p> <p style="text-align: right; font-size: 2em;">17</p>	<p><b>Geometry: Shape</b> Angles at a point, on a line, in triangles and quadrilaterals Properties of shapes (2D and 3D)</p>	<p><b>Number: Calculation 2</b> Primes, factors, multiples Simple powers and roots</p>	<p><b>Algebra: Simplifying</b> Collecting like terms, expanding single brackets, factorising into single brackets, simplifying</p>	<p><b>Number: FDP</b> Fractions; Equivalent Fractions Proper Fraction Arithmetic Converting between FDP Ordering fractions, decimals and percentages Terminating decimals Percentages of amounts</p>
	Spring Term	<p><b>Number and Algebra: Pattern Sniffing</b> Continuing sequences Generating sequences Nth terms of linear sequences</p>	<p><b>Algebra: Solving</b> Solving linear equations</p>	<p><b>Geometry: Measuring</b> Perimeter including circumference Area – rectangles, parallelograms, trapezia, circles Volume/SA of cuboids</p>	<p><b>R&amp;P: Scaling</b> Ratio – simplifying, dividing in a given ratio Proportion – writing as fractions Scale factors Similar Shapes (2D) Standard Units Converting between units Speed</p>	
	Summer Term	<p><b>Algebra: Graphing</b> Coordinates Horizontal and vertical graphs Graph Plotting (Linear) Real life graphs including conversion and travel graphs</p>	<p><b>Geometry: Visualising</b> Measuring and Drawing Lines Measuring and Drawing Angles Bearings Simple Constructions and Scale Drawings Reflection, Rotation, Translation, Enlargement (positive integer sf)</p>	<p><b>Statistics: Probability</b> Simple probability</p>	<p><b>Statistics: Data</b> Construct and interpret charts, tables and diagrams Averages from lists and tables.</p>	

Year 10/11

<b>Support Curriculum</b>	<b>Autumn Term</b>	<b>Number: Calculation</b> Four operations recap – whole numbers and decimals Order of operations Primes, factors, multiples, HCF, LCM, product of primes Calculating with powers and roots	<b>Geometry: Shape</b> Properties of shapes (2D and 3D) Basic angle rules Angles on parallel lines Angles in polygons; interior and exterior angles	<b>Algebra: Simplifying</b> Collecting like terms Expanding and factorising Using index laws Writing and representing simple inequalities	<b>Number: Fractions, Decimals and Percentages</b> Recap Fraction Arithmetic Recap Percentages of amounts Solving problems involving FDP Percentage change problems
	<b>Spring Term</b>	<b>Geometry: Measuring</b> Perimeter including circumference Area – rectangles, parallelograms, trapezia, circles Volume of cuboids, right prisms and cylinders	<b>Algebra: Solving</b> Solving linear equations Solving inequalities Formulae – substitution, rearranging, writing	<b>R&amp;P: Scaling</b> Ratio – simplifying, dividing in a given ratio, solving problems Scale factors Similarity Direct and inverse proportion problems Standard Units Converting between units Compound Units	
	<b>Summer Term</b>	<b>Algebra: Graphing</b> Coordinates Horizontal and vertical graphs Straight line graphs $y=mx+c$ Simple gradient and intercept Solving equations graphically Real life graphs including kinematics	<b>Geometry: Shape 2</b> Pythagoras	<b>Statistics: Probability</b> Calculating simple probabilities Tree Diagrams	
	<b>Autumn Term</b>	<b>Statistics: Data</b> Construct and interpret charts, tables and diagrams Scatter graphs and correlation Central tendency and spread	<b>Number: Calculation</b> Rounding and truncation, error intervals Limits of accuracy Standard Form Calculating with $\pi$	<b>Geometry: Visualising</b> Circle Properties Constructions Loci Plans and Elevations Transformations Recap	