Key Stage 3 Mathematics Curriculum Map

	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	Number Converting between FDP Equivalent fractions Improper and mixed fractions Ordering FDP Negative Number Introduction to negative numbers Adding and subtracting negative numbers Multiplying and dividing negative numbers	Traditional Algebra Order of operations Simplifying expressions Substitution Creating expressions and solving equations Angles Measuring and drawing angles Basic angle facts Angles in quadrilaterals and properties of quadrilaterals	Plotting co-ordinates in all four quadrants Plotting linear graphs, including horizontal and vertical lines. Handling Data Bar Charts Pie Charts Averages and range Interpreting statistics	Fractions Add and subtract fractions Find a fraction of a quantity Decimals Rounding, adding and subtracting decimals. Multiplying and dividing decimals by powers of 10 Multiplying and dividing decimals	Probability The probability scale Theoretical probability Experimental probability Measurement Constructing triangles Nets Metric units Perimeter, Area and Volume Area, perimeter, volume and surface area of 2D and 3D shapes	Percentages Writing one number as a percentage of another. Finding a percentage of a quantity. Transformations Reflections Rotations Translations Number Patterns Fibonacci Nth term
Year 8	Factors and Indices Highest Common Factor Lowest Common Multiple Prime Factor Decomposition Reciprocals Pythagoras' Theorem Discover Pythagoras' Theorem Use Pythagoras' Theorem	Algebra Construct, solve linear equations. Substitution. Simplify or transform algebraic expressions. Use formulae Circles Parts of a circle. Circumference and area Handling Data Averages from grouped data Scatter graphs. Lines of Best Fit	Ratio and proportion Relationship between ratio and proportion. Shape and ratio maps and scale drawings FDP Convert between FDP percentages of amounts Increase and decrease by a percentage. Percentage change.	Algebra 2 Substitution nth term y = mx + c real-life problems	Transformations Reflections, rotations, translations and enlargements Combination of transformations Prisms Area of 2D shapes Surface Area and Nets Changing between units Volume	Angles and bearings Angle facts Bearings Interior and exterior angles of polygons Probability Outcomes Probability Spaces
Year 9	Speed, Distance and time Speed Distance / Time graphs Percentages Use multipliers Repeated increase and decrease. Reverse percentages	Algebra Solving linear equations Construct and solve non-linear equations Solve simultaneous equations Simple linear inequalities Factorisation Square a linear expression Probability Tree diagrams for conditional events Relative Frequency	Constructions Construct triangles, perpendicular bisector, angle bisector. 60°, 30° and 45° angles. Trigonometry Define trigonometric ratios. Use trigonometry to find sides and angles. Bearings Enlargement Negative scale factors Similar area & volume	Handling Data Range and modal class. Bar, line and pie charts. Scatter graphs. Construct frequency tables and find the MMMR Rounding/Standard Form Multiply and divide by any integer power of 10. Understand bounds. Write numbers in standard form. Use rounding to make estimates. X and ÷ by numbers between 0 and 1.	Bronze number Fractions to decimals, comparing %, % change, rounding, HCF/LCM, index laws, operations with fractions Examinations and activities week	Bronze algebra Graphs (gradients, real- life, quadratic), inequalities, subject of a formula, sequences