

CURRICULUM OVERVIEW: KS3 Mathematics

Maths Mastery		
	Year 7	Year 8
Autumn term	<ul style="list-style-type: none"> Understand place value to compare and order numbers including decimals Use approximation and rounding in problem solving Understand and solve problems involving addition and subtraction including perimeter Multiply and divide multi-digit numbers including decimals Find and understand factors and multiples, including LCMs and HCFs Understand and apply the formulae for area of a rectangle, triangle and parallelogram 	<ul style="list-style-type: none"> Understand and use prime factor decomposition Add and subtract fractions Compare and calculate with negative numbers Find and use both term-to-term and position-to-term rules to describe sequences Form and solve linear equations in one unknown Construction of triangles and quadrilaterals
Spring term	<ul style="list-style-type: none"> Accurately draw, measure, and identify types of angles Use facts to solve problems involving unknown angles on a line and at a point Understand and use properties of triangles and quadrilaterals Understand and use fraction notation in a variety of contexts Compare and order fractions, decimals and mixed numbers Multiply and divide with fractions 	<ul style="list-style-type: none"> Understand and use properties of angles in parallel lines Understand and convert between metric units of area for all rectilinear shapes Use percentage change including reverse percentages Understand and use ratio Understand and use multiplicative relationships in contexts including speed
Summer term	<ul style="list-style-type: none"> Carry out combined calculations using all four operations with brackets Represent unknowns with letters forming and manipulating algebraic expressions Evaluate algebraic expressions through substitution Understand and use percentage including percentage increase and decrease Draw, read and interpret statistical diagrams, including pie charts 	<ul style="list-style-type: none"> Understand and use the formulae for area and circumference of circles Represent and use the properties of three-dimensional shapes Find the volumes and surface areas of prisms and composite solids Understand and use appropriate strategies to collect, tabulate and classify data Understand and use summary measures of data
Assessment	<ul style="list-style-type: none"> Pupils are internally assessed twice per half term End of Year AQA KS3 Year 7 Paper 1 (Non-Calculator), Paper 2 (Calculator). 	<ul style="list-style-type: none"> Pupils are internally assessed twice per half term End of Year AQA KS3 Year 8 Paper 1 (Non-Calculator), Paper 2 (Calculator).