

In Key Stage 3 we aim for students to master some of the core fundamentals of mathematics. We have developed a scheme of learning designed to strengthen students' numerical fluency, enhance their problem solving skills and foster a deep understanding of underlying mathematical structures.

Year 7 Scheme of Work Overview		Year 8 Scheme of Work Overview	
Main topics	Sub topics	Main topics	Sub topics
Autumn term	Analysing and displaying data	Ratio and proportion	Direct proportion Writing ratios Using ratios Scale and measures Proportions and fractions Proportions and percentages
	Number skills	Number	Efficient calculations Calculating with negative integers Powers and roots Powers, roots and brackets Multiples and factors
		Area and volume	Area Volume Surface area
Spring term	Expressions, functions and formulae	Expressions and equations	Algebraic powers Expressions and brackets Factorising expressions One and two-step equations The balancing method
	Decimals and measures	Real-life graphs	Conversion graphs Distance-time graphs Line graphs Complex line graphs STEM: Graphs of functions More real-life graphs
	Fractions and percentages	Decimals and ratio	Ordering decimals and rounding Place-value calculations Calculations with decimals Ratio and proportion with decimals STEM: Using ratios
Summer term	Lines and angles	Calculating with fractions	Adding and subtracting fractions Multiplying fractions Fractions, decimals and reciprocals Dividing fractions Calculating with mixed numbers
	Sequences and graphs	Percentages, decimals and fractions	Fractions and decimals Equivalent proportions Percentages of amounts FINANCE: Solving problems
		Straight-line graphs	Direct proportion on graphs Gradients Equations of straight lines STEM: Direct proportion problems