



KS3 Curriculum Overview

Year 7

During Year 7 students will focus on becoming fluent in key numeracy skills with an improved depth of understanding that will enhance their ability in problem solving and reasoning. Reasoning remains a core element which permeates through all lessons. We will focus on the fundamentals of numeracy whilst ensuring resilience is fostered through the application of concepts to solve increasingly more complex problems. We tailor environments and lessons to simultaneously challenge the mathematically gifted whilst nurturing those who find mathematics complex.

The curriculum for mathematics has six areas of study: Number, Algebra, Geometry and Measures, Ratio, Proportion and Rates of change, Probability and finally, Statistics.

Autumn Term

The Autumn term begins with some work on sequences then moves on to the application of the four operations, working with negative and positive integers, prime numbers, factors and multiples.

Spring Term

We then begin the Spring term with priority of operations, moving on to using key geometric vocabulary specifically focussing on angles, recognising and constructing shapes, measuring lines and angles accurately. Finally we end this term with work on fractions moving into some work on algebraic notation.

Summer Term

The final term in Summer continues with a focus on fractions and percentages, then delves further into primes and index numbers, rounding and we end the term on algebraic manipulation.

Sept 1	Sept 8	Sept 15	Sept 22	Sept 29	Oct 6	Oct 13	Oct 20	Oct 27	Nov 3	Nov 10	Nov 17	Nov 24	Nov 30	Dec 7	Dec 14	Dec 21	Dec 28
	Decimals	Place value			Addition and subtraction	Calculation	Order		Multiplication and division				Factors and multiples		Calculation	Prime factors	
Jan 4	Jan 11	Jan 18	Jan 25	Feb 1	Feb 8	Feb 15	Feb 22	Mar 1	Mar 8	Mar 15	Mar 22	Mar 29	Apr 5				
	Order of operations	Assessment 1	Geometry	Estimate 1	Calculation			Estimate 1				Algebraic expressions 1	Order of operations				
Apr 12	Apr 19	Apr 26	May 3	May 10	May 17	May 24	May 31	Jun 7	Jun 14	Jun 21	Jun 28	Jul 5	Jul 12	Jul 19			
	Fractions and percentages of amounts	Assessment 2	Prime and composites	Calculation	Order			Rounding				Algebraic expressions 2	Calculation				

Year 8

During Year 8 students continue to deepen their understanding through application of their knowledge to an array of standard and non-standard problems that increase in complexity. Reasoning is developed further through rigorous questioning that probes a student's ability to justify solutions, extrapolate results, and draw conclusions using mathematical proof.

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Autumn Term

The Autumn term begins with a recap on rounding, then moves on to further algebraic manipulation including index laws, solving equations, then we move onto problem solving with angles and finish the term with area and perimeter.

Spring Term

We then begin the Spring term with further understanding of percentages, an introduction to ratio and proportion, further fractions finishing the term with 2D geometry.



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Summer Term

The Summer term begins by building on the 2D geometry unit and moves onto 3D geometry, with the remainder of the term introducing the topic of statistics and probability.



Year 9

During Year 9 students continue to further develop their knowledge & understanding through application to an array of standard and non-standard problems that increase in complexity. New topics are also introduced which apply the principles learnt in previous years to enrich and re-inforce the students mathematical ability. Reasoning is developed further through the rigorous questioning that probes a student's ability to justify solutions, extrapolate results, and draw conclusions using mathematical proof; whilst retrieval practise ensures retention of prior topics.

The curriculum for mathematics has six areas of study: Number, Algebra, Geometry and Measures, Ratio, Proportion and Rates of change, Probability and finally, Statistics.

Autumn Term

The Autumn terms is a recap of number skills including place value, decimals and rounding. We carry on with number work involving indices, factors, multiples & primes after this, then continue into fractions & percentages.

Spring Term

The Spring term re-introduces probability, building on new skills in this area. After this, the term focusses on algebra including algebraic manipulation and solving equations. Finally we delve further into ratio & proportion, strengthening students prior knowledge on these topics in order to prepare them for the GCSE course in KS4.

Summer Term

The Summer term returns to a number topic called standard form, then moves on to graphing including straight line graphs and real-life graphs. We then have a focus on sequences including using algebra then we end the term with transformations, inequalities and an introduction to quadratic equations, again preparing for the GCSE course.

