



Mathematics Curriculum Map: Year 5

Mastery

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	Reasoning with large whole integers		Integer addition and subtraction		Line graphs and timetables		Multiplication and division			Perimeter and area
	<ul style="list-style-type: none"> Read, write, order and compare numbers up to one million Round numbers within one million to the nearest multiple of powers of ten Read Roman numerals up to M 		<ul style="list-style-type: none"> Use rounding to estimate Use a range of mental calculation strategies to add and subtract integers Illustrate and explain the written method of column addition and subtraction Select efficient calculation strategies 		<ul style="list-style-type: none"> Complete, read and interpret data presented in line graphs Read and interpret timetables including calculating intervals 		<ul style="list-style-type: none"> Identify multiples and factors Investigate prime numbers Multiply and divide by 10, 100 and 1000 (integers) Multiply and divide using derived facts Use written methods to multiply and divide Use a range of mental calculation strategies 			<ul style="list-style-type: none"> Investigate area and perimeter of rectilinear shapes Estimate area of non-rectilinear shapes

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Spring	Fractions and decimals			Angles		Fractions and percentages			Transformations	
	<ul style="list-style-type: none"> Read, write, order and compare decimals Round decimals to the nearest whole number Represent, identify, name, write, order and compare fractions (including improper and mixed numbers) Calculate fractions of amounts 			<ul style="list-style-type: none"> Classify, compare and order angles Measure a draw angles with a protractor Understand and use angle facts to calculate missing angles 		<ul style="list-style-type: none"> Add, subtract fractions with denominators that are multiples of the same number Multiply fractions (and mixed numbers) by a whole number Explore percentage, decimal, fractions equivalence 			<ul style="list-style-type: none"> Coordinates in all four quadrants Translation and reflection Calculate intervals across zero as a context for negative numbers 	

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Summer	Converting units of measure		Calculating with whole numbers and decimals			2-D and 3-D shape		Volume	Problem solving	
	<ul style="list-style-type: none"> Convert between metric units of length, mass and capacity and units of time Know and use approximate conversion between imperial and metric 		<ul style="list-style-type: none"> Mental strategies to add and subtract involving decimals Formal written strategies to add, subtract and multiply involving decimals Multiply and divide decimal numbers by ten, 100 and 1,000 Derive addition, subtraction and multiplication facts involving decimals 			<ul style="list-style-type: none"> Classify 2-D shapes and reason about regular and irregular polygons Properties of diagonals of quadrilaterals Classify 3-D shapes 2-D representations of 3-D shapes. 		<ul style="list-style-type: none"> Use cube numbers and notation Estimate volume Convert units of volume 	<ul style="list-style-type: none"> Negative numbers and calculating intervals across zero Calculating the mean Interpret remainders Investigate numbers: consecutive, palindromic, multiples 	



The Dimensions of Depth - Conceptual Understanding, Language and Communication and Mathematical Thinking - underpin all aspects of the curriculum; problem solving is at the heart and is embedded in all units.