

Morningside Curriculum Overview: Mathematics

	Mathematics at Morningside: Mastering Mathematics							
A high-quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject. (National Curriculum)								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Y e r 1			cicle over triangle square to perform the performance over the performan	First Then Now $0 + 2 = 2$		Make the pri dout.		
	numbers up to 100CountingOrderingComparingSubitising	 comparing quantities Comparing Part-whole relationships Fluency with numbers to 5 2D and 3D shapes 	 sorting shapes 2D and 3D shapes Fluency with numbers to 10 Additive structures 	 adding and subtracting Additive structures Addition and subtraction facts within 10 	 numbers to 20 Fluency with numbers to 20 Unitising Coin recognition 	 coins, position & time Money Position Direction Time 		
Y e r 2	1008	20	$\frac{1}{3}$	$\frac{37}{16}$	Telling the Time Past ten minutes past			
	 numbers from 10 to 100 Counting Ordering Comparing Doubling Calculating within 20 	 adding & subtracting Adding Subtracting Crossing 10 Introduction to multiplication 	 multiplying Repeated addition Arrays Sharing & grouping 2s, 5s and 10s Skip counting 	 adding & subtracting Adding and subtracting 2-digit numbers 2D and 3D shape 	money, fractions and shapes • Money • Fractions • Time • Position • Direction	 multiplying, dividing and measuring Doubling Halving Dividing Capacity Volume Mass 		



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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y e r 3	Count on one hundred Hundred® Tens One 221 + 100 = one hundred more than 221 is 321 + 100				$\frac{1}{2}$ $\frac{1}{4}$	Perpendicular Perpendicular lines are lines which meet or cross at a right angle. (90°)
	calculating to 1000Ordering	calculating to 1000Ordering	mental calculationMental strategies	adding, subtracting and multiplying	finding fractionsUnit fractions	fractions, shape and time
	 Comparing Place value Adding and subtracting across 10 	 Comparing Place value Decomposing Partitioning Statistics Money 	Additive relationshipsRight angles	 Column addition Column subtraction 2, 4 and 8 times tables 	 Non-unit fractions 	 Non-unit fractions Parallel sides Perpendicular sides Time
	Using place value counters:	5 x 6 = 30 3 x 5 = 15 4 x 9 = 36 2 x 6 = 12	1x7 = 7 2x7 = 14 3x7 = 21 4x7 = 28 5x7 = 35 6x7 = 42 7x7 = 49 8x7 = 56 9x7 = 63 10x7 = 70 11x7 = 77 12x7 = 84		Fraction wall	
Y	numbers up to 10,000	multiplying & finding	times tables and	multiplying and finding	finding fractions	symmetry, time and
e	Column addition	perimeters	multiplying	coordinates	Reviewing fractions	dividing with remainders
a r	 Column subtraction Numbers to 10,000 	Perimeter Area	 3 times table 6 times table 	Understanding and manipulating	Fractions greater than 1	• Time
4		 3 times table 6 times table 9 times table 	 9 times table 9 times table and patterns Understanding and manipulating multiplicative 	multiplicative relationshipsCoordinates	Decimals	 Division with remainders Statistics
			multiplicative relationships			



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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Image: state Image: state<	2 3 7 x 4 9 4 8 1 2	Finding the area: rectangle	0.25 <u>1</u> 25% <u>4</u>	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 2 \\ \hline 4 \\ \hline 4 \\ \hline 8 \\ \hline 1 \\ \hline 8 \\ \hline 8 \\ \hline 1 \\ \hline 8 \\ \hline 8 \\ \hline 1 \\ \hline 8 \\$	
Y e r 5	decimals and moneyDecimal fractionsMoney	We are using negative numbers, & short multiplication & division Negative numbers Short multiplication Short division	We are finding the area, scaling and calculation with decimals. • Area • Scaling • Calculating with decimal fractions	We are calculating with decimals, and finding factors, multiples and primes. • Calculating with decimal fractions • Factors • Multiples • Primes	 We are exploring fractions. Adding Subtracting Multiplying Converting Equivalence 	We are converting units, finding angles and describing transformations. • Measuring and drawing angles • Calculating angles • Reflection & translation • Converting units • Statistics
	+-**	TEN MILLION!				
Y a r 6	 knowledge of structures Addition Subtraction Multiplication Division Mental strategies Multiples of 1,000 	numbers up to 10,000,000. Ordering, comparing and place value Negative numbers Multiples of 1,000 Addition Subtraction Draw, compose and decompose shapes	 multiplying, dividing, and fraction Long multiplication Long division Fractions Position Direction 	fractions, decimals and statistics Fractions Decimals Statistics Ratio and proportion BIDMAS Area Perimeter	 solving problems Statistics Ratio and proportion BIDMAS Mean average Solving problems with 2 unknowns 	 investigating, and preparing for secondary school MEI transition unit: calculators Investigations Consolidating our Year 6 work