

	MULTIPLICATION & DIVISION FACTS							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	count in multiples of twos, fives and tens (appears Number and Place Value)	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (appears in Number and Place Value)	count from 0 in multiples of 4, 8, 50 and 100 (appears in Number and Place Value)	count in multiples of 6, 7, 9, 25 and 1000 (appears in Number and Place Value)	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (appears in Number and Place Value)			
		recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up to 12 × 12				
			MENTAL CALC	ULATION				
			write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers		



			one-digit numbers, usin	ıg and 1; dividin	g by		
			mental and progressing	to 1; multiplying	V		
			formal written methods	together three	,		
			(appears in Written	numbers			
			Methods)				
		show that	•	recognise and	use multiply and	divide ass	sociate a fraction
		multiplication of two		factor pairs a			th division and
		numbers can be done		commutativit		a cal	culate decimal
		in any order		mental	decimals by 1	U	ction equivalents
		(commutative) and		calculations	and 1000 °		g. 0.375) for a
		division of one		(appears in			iple fraction (e.g.
		number by another		Properties of		3/8)	
		cannot		Numbers)			ppears in Fractions)
				, rearragers)		(4)	
			WRITTEN	CALCULATION			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5		Year 6
		calculate mathematical	write and calculate	multiply two-	multiply numbers	multiplu m	ulti-digit numbers
		statements for	mathematical	digit and three-	up to 4 digits by a		gits by a two-digit
		multiplication and	statements for	digit numbers by			nber using the
		division within the	multiplication and	a one-digit	number using a		tten method of
		multiplication tables	division using the	number using	formal written	long multip	
		and write them using	multiplication tables	formal written	method, including		
		the multiplication (×),	that they know,	layout	long multiplication		
		division (÷) and equals		lugou	for two-digit		
		(=) signs	digit numbers times		numbers		
		() sugition	one-digit numbers,		TWITING 3		
			using mental and				
			progressing to				
1			progressing w		1		

			formal written methods (appears in Mental Methods)		divide numbers u to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	by a to using method where division remain rounding the contex with the context w	numbers up to 4-digits wo-digit whole number the formal written d of short division appropriate for the t divide numbers up to s by a two-digit whole er using the formal method of long m, and interpret uders as whole number uders, fractions, or by ng, as appropriate for ntext itten division methods es where the answer a to two decimal places ars in Fractions
			MBERS: MULTIPLES, FAC				
EYFS	Year 1	Year 2	Year 3	Year 4	Yea		Year 6
				recognise and use factor pairs and commutativity in mental calculation	and factors including fi	, nding all	identify common factors, common multiples and prime numbers



		(repeated)	number, and common factors of two numbers. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19	use common factors to simplify fractions; use common multiples to express fractions in the same denomination (appears in Fractions)
			recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³ (appears in Measures)



	ORDER OF OPERATIONS							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
						use their knowledge of the order of operations to carry out calculations involving the four operations		
		INVER	SE OPERATIONS, ESTIMA	ATING AND CHECKING A	ANSWERS			
			estimate the answer to a calculation and use inverse operations to check answers (appears in Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (appears in Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy		





	PROBLEM SOLVING							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which number of objects are connected to missing objects	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple	solve problems involving addition, subtraction, multiplication and division (appears in Addition and Subtraction) solve problems involving similar shapes where the scale factor is known or can be found		



		simple rates	