MULTIPLICATION & DIVISION FACTS									
Nursery	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
		count in multiples of twos, fives and tens (copied from Number and Place Value)	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value)	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value)	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (copied from 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	,			
				LCULATION					
	See, copy and continue a pattern of shapes or objects			write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers		

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	show that multiplication of	numbers, using mental and progressing to formal written methods (appears also in Written Methods)	recognise and use factor pairs	multiply and divide whole	associate a fraction with
	two numbers can be done in any order (commutative) and division of one number by another cannot		and commutativity in mental calculations (appears also in Properties of Numbers)	numbers and those involving decimals by 10, 100 and 1000	division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³ / ₈) (copied from Fractions)
	WRITTEN C	ALCULATION			
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using	multiply two- digit and three- digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	multiply multidigit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

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				mental and			
				progressing to			
				formal written			
				methods			
				(appears also in			
				Mental Methods)			
				,		divide numbers	divide numbers
						up to 4 digits by	up to 4-digits by
						a one-digit	a two-digit
						number using	whole number
						the formal	using the formal
						written method	written method
						of short division	of short division
							where
						and interpret	
						remainders	appropriate for
						appropriately for	the context
						the context	divide numbers
							up to 4 digits by
							a two-digit
							whole number
							using the formal
							written method
							of long division,
							and interpret
							remainders as
							whole number
							remainders,
							fractions, or by
							rounding, as
							appropriate for
							the context
							use written
							division methods
							in cases where the
							answer has up to
	1	<u> </u>	1		1	1	

		-1	RYSU Nespect,	Aspire, Achieve			
							two decimal places (copied from Fractions (including decimals))
	PROPE	RTIES OF NUMBER	S: MULTIPLES, FACT	ORS, PRIMES, SQU	ARE AND CUBE NUI	MBERS	
Nursery	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
,					recognise and use factor pairs and commutativity in mental calculations (repeated)	identify multiples and factors, including finding all factor pairs of a 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	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)
						recall prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers,	calculate, estimate and compare volume of cubes and cuboids using



			and the notation for squared (²) and cubed (³)	standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³
				and km ³ (copied from Measures)

			ORDER OF	OPERATIONS			
Nursery	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
		INVERSE OP	ERATIONS, ESTIM	ATING AND CHECKI	NG ANSWERS		
				estimate the	estimate and use		use estimation
				answer to a	inverse operations		to check
				calculation and	to check answers		answers to
				use inverse	to a calculation		calculations and
				operations to	(copied from		determine, in
				check answers	Addition and		the context of a
				(copied from	Subtraction)		

			Addition and Subtraction)			problem, levels of accuracy
L	L	PROBLEM	I SOLVING			<u> </u>
Nursery EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Nursery EYFS	year 1 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	year 3 solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	year 4 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 fractions and	solve problem involving addition, subtraction, multiplication and division solve problems involving simila shapes where the scale factor is known or can be found (copied from Ra



based on NCETM Progression maps

						involving simple			
						rates			