



	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	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 1000 (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)	Year 6		
equally (ELG).								
Double numbers up to 5. Share 10, 8, 6, 4, 2 equally in practical contexts and understand that these numbers are even.	Double numbers up to 10. Recall half of 10, 8, 6, 4 and 2. Count on and back in 2s, 5s, and 10s Share into 2, 5 and 10 equal groups	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				
Double numbers up to 5. Share 10, 8, 6, 4, 2 equally in practical contexts and understand that these numbers are even.	Double numbers up to 10. Recall half of 10, 8, 6, 4 and 2. Count on and back in 2s, 5s, and 10s Share into 2, 5 and 10 equal groups.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables. Link multiplying and dividing by 2 to doubling and halving	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 mental and progressing to formal written methods (appears	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		





			also in Written Methods)			
		show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	,	recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers)	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³ / ₈) (copied from Fractions)
			WRITTEN CA	ALCULATION		
EYFS	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 mental and progressing to formal written methods (appears also in Mental Methods)	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 multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
					divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the	divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the





					context	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 two decimal places (copied
						from Fractions (including decimals))
				TORS, PRIMES, SQUARE A		
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	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use
					numbers, prime factors and composite (non-prime) numbers	common multiples to express fractions in the same denomination





	establish whethe number up to 10 prime and recall numbers up to 19) is prime
	recognise and use square numbers acube numbers, and notation for square (2) and cubed (3)	and compare volume of cubes and the and cuboids using





	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	
		INVE	RSE OPERATIONS, ESTIMA	ATING AND CHECKING AN	SWERS		
			estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (copied from 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 n objects are connected to m 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 fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)	