

MULTIPLICATION & DIVISION FACTS								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Make pairs from small quantities and recognise that sometimes there will be one left over (copied from Number and Place Value)	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)			
Learn that double means 'twice as many'  Share to make equal groups and recognise that items may be left over		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 CALCULATION					
			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 Written Methods)	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		
		show that	,	recognise and use	multiply and divide	associate a fraction with		











		multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		factor pairs and commutativity mental calcular (appears also in Properties of Numbers)	in those involving	decimal fraction
EVEC	V4	V2	WRITTEN CALCULAT		V	V 6
EYFS	Year 1	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)	Year 4 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	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 divide numbers up to 4 digits by a two-digit whole number











					remainders appropriately fo the context	or method interpres number or by ro for the use write cases what wo deci	ne formal written I of long division, and et remainders as whole r remainders, fractions, eunding, as appropriate context ten division methods in ere the answer has up to emal places (copied from es (including decimals))
EYFS	Year 1	OPERTIES OF NUMBERS: N Year 2	<b>MULTIPLES, FACTORS, PRII</b> Year 3	MES, SQUARE AND C Year 4		Year 5	Year 6
LII3	Teal 1	Teal 2	Teal 3	recognise and use factor pairs and commutativity in mental calculations (repeated)	identify r factors, in finding all of a num common two num know and vocabula numbers factors an (non-prir establish number of	nultiples and ncluding ll factor pairs ber, and factors of bers. d use the ry of prime nd composite ne) numbers whether a up to 100 is d recall prime	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)
					cube nun	e and use umbers and nbers, and the for squared	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³)









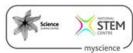


			(²) and cubed (³)	and cubic metres (m³), and extending to other units such as mm³ and km³
				(copied from Measures)











	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		
		INVERSE OPERA	TIONS, ESTIMATING AND	CHECKING ANSWERS				
			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			
Engage in problem solving linked to familiar stories, from children's suggestions or real problems which arise as they play (copied from addition and subtraction)	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	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction,	solve problems involving addition, subtraction, multiplication and division			
				to m objects	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 similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)			







