

	MULTIPLICATION & DIVISION FACTS						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
<i>count in multiples of twos, fives and tens</i> (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)	<i>count from 0 in multiples of 4, 8, 50 and 100</i> (copied from Number and Place Value)	<i>count in multiples of 6, 7, 9, 25 and 1 000</i> (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				
		MENTAL CALCU	LATION				
		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 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 CALCULATION							
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 context	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 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			



		NUMBERS: MULTIPLES, FAC		places decim	<i>the answer has up to two decimal</i> (copied from Fractions (including als))
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 recall prime numbers up to 19	identify common factors,
				recognise and use squar numbers and cube numbers, and the notation for squared (²) and cubed (³)	e calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ (copied from Measures)



ORDER OF OPERATIONS						
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	
	IN	VERSE OPERATIONS, ESTIMA	TING AND CHECKING ANSWI	ERS		
		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							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
solve one-step problems	solve problems involving	solve problems, including	solve problems involving	solve problems involving	solve problems involving		
involving multiplication	multiplication and	missing number problems,	multiplying and adding,	multiplication and division	addition, subtraction,		
and division, by	division, using materials,	involving multiplication	including using the	including using their	multiplication and division		
calculating the answer	arrays, repeated addition,	and division, including	distributive law to	knowledge of factors and			
using concrete objects,	mental methods, and	positive integer scaling	multiply two digit	multiples, squares and			
pictorial representations	multiplication and division	problems and	numbers by one digit,	cubes			
and arrays with the	facts, including problems	correspondence problems	integer scaling problems	solve problems involving			
support of the teacher	in contexts	in which n objects are	and harder	addition, subtraction,			
		connected to m objects	correspondence problems	multiplication and division			
			such as n objects are	and a combination of			
			connected to m objects	these, including			
				understanding the			
				meaning of the equals			
				sign			
				solve problems involving	solve problems involving similar shapes where the		
				multiplication and	scale factor is known or can		
				division, including scaling	be found		
				by simple fractions and	(copied from Ratio and		
				problems involving simple rates	Proportion)		