

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</i> <i>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 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 multiplication of two numbers can be done in any order (commutative) and division of one number		recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of	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)		



	by another cannot		Numbers)				
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		



					decimal p	<i>e answer has up to two places</i> (copied from Fractions g decimals))		
	PROPERTIES OF NUMBERS: MULTIPLES,_FACTORS,_PRIMES,_SQUARE AND CUBE NUMBERS							
Year 1	Year 2	Year 3	Year 4	Year 5		Year 6		
			recognise and use fact pairs and commutativ in mental calculations (repeated)	ity factors, includin	g r pairs d of two ime factors non- er a 0 is 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)		
				recognise and us square numbers, a cube numbers, a notation for squ and cubed (³)	and Ind the	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	
	INVER	SE OPERATIONS, ESTIMA	TING AND CHECKING AN	SWERS		
		estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	<i>estimate and use inverse</i> <i>operations to check</i> <i>answers to a calculation</i> (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,	solve problems involving	solve problems involving	solve problems involving		
involving multiplication	multiplication and	including missing	multiplying and adding,	multiplication and	addition, subtraction,		
and division, by	division, using	number problems,	including using the	division including using	multiplication and		
calculating the answer	materials, arrays,	involving multiplication	distributive law to	their knowledge of	division		
using concrete objects,	repeated addition,	and division, including	multiply two digit	factors and multiples,			
pictorial representations	mental methods, and	positive integer scaling	numbers by one digit,	squares and cubes			
and arrays with the	multiplication and	problems and	integer scaling problems	solve problems involving			
support of the teacher	division facts, including	correspondence	and harder	addition, subtraction,			
	problems in contexts	problems in which n	correspondence	multiplication and			
		objects are connected to	problems such as n	division and a			
		m objects	objects are connected to	combination of these,			
			m objects	including understanding			
				the meaning of the			
				equals sign			
				solve problems involving	solve problems involving		
				multiplication and	similar shapes where the		
				division, including	scale factor is known or		
				scaling by simple	<i>can be found</i> (copied from Ratio and		
				fractions and problems	Proportion)		
				involving simple rates			