	MULTIPLICATION & DIVISION FACTS						
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 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)			
	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		recognise and use factor pairs and commutativity in mental calculations	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)		









	division of one number by another cannot			(appears also in Properties of Nur	mbers)			(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)	and to num digit	iply two-digit three-digit bers by a one- number using al written ut	multiply numbers up to 4 digits by a one- or two-digit number		multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication		
					4 digi numb forma meth divisi rema	e numbers up to its by a one-digit per using the al written od of short on and interpret inders periately for the ext	two-dig formal v division context digits by using the long div remains	numbers up to 4-digits by a lit whole number using the written method of short where appropriate for the divide numbers up to 4 y a two-digit whole number are formal written method of rision, and interpret ders as whole number ders, fractions, or by	









	PROPERTIES OF I	NUMBERS: MULTIPLES, FAC	TORS. PRIMES. SOUARE A	C U V C	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))
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			recognise and use factor pairs and commutativity in mental calculations (repeated)	factors, including fi all factor pairs of a number, and comm factors of two num know and use the vocabulary of prime numbers, prime fact and composite (not prime) numbers establish whether a number up to 100 if prime and recall prinumbers up to 19	common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions) is time
				recognise and use some numbers and cube numbers, and the notation for square and cubed (3)	compare volume of cubes and cuboids using standard









					to other units such as mm ³ and km ³ (copied from Measures)			
		ORDER OF C	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			
	INVERSE OPERATIONS, 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						
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	multiplying and adding,	multiplication and	addition, subtraction,	
and division, by	division, using materials,	problems, involving	including using the	division including using	multiplication and	
calculating the answer	arrays, repeated addition,	multiplication and	distributive law to	their knowledge of	division	
using concrete objects,	mental methods, and	division, including positive	multiply two digit	factors and multiples,		
pictorial representations	multiplication and	integer scaling problems	numbers by one digit,	squares and cubes		
and arrays with the	division facts, including	and correspondence	integer scaling problems	solve problems involving		
support of the teacher	problems in contexts	problems in which n	and harder	addition, subtraction,		
		objects are connected to	correspondence problems	multiplication and		
		m objects	such as n objects are	division and a		
			connected to m objects	combination of these,		
				including understanding		
				the meaning of the equals		
				sign		
				solve problems involving	solve problems involving	
				multiplication and	similar shapes where the	
				division, including scaling	scale factor is known or can	
				by simple fractions and	be found (copied from Ratio and	
				problems involving simple	Proportion)	
				rates	110001110111	







