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 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 decin 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 where the answer has up to two decimal places (copied from Fractions (including 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 factor	identify	identify common factors, common	
			pairs and commutativity	multiples and	multiples and prime numbers	
			in mental calculations	factors,		
			(repeated)	including		
				finding all	use common factors to simplify	
				factor pairs of a	fractions; use common multiples to	
				number, and	express fractions in the same denomination	
				common	(copied from Fractions)	
				factors of two	(copied nom raddons)	
				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		
				recognise and use square numbers	calculate, estimate and compare volume of cubes and cuboids using standard units,	
				and cube numbers,	including centimetre cubed (cm ³) and cubic	
				and the notation		
				for squared (2) and	metres (m^3), and extending to other units	
				cubed (³)	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 ANSW	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	
				multiplication and	similar shapes where the scale factor is known or can	
				division, including scaling	be found	
				by simple fractions and	(copied from Ratio and	
				problems involving simple	Proportion)	
				rates		