MULTIPLICATION & DIVISION FACTS					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
count in multiples of twos,	count in steps of 2, 3, and 5	count from 0 in multiples of	count in multiples of 6, 7, 9,	count forwards or backwards	
fives and tens (copied from	from 0, and in tens from any	4, 8, 50 and 100 (copied from	25 and 1000 (copied from	in steps of powers of 10 for	
Number and Place Value)	number,	Number and Place Value)	Number and Place Value)	any given number up to	
	forward or backward (copied			1 000 000	
	from Number and Place Value)			(copied from Number and Place Value)	
	recall and use	recall and use	recall multiplication and	Place value)	
	multiplication and division	multiplication and division	division facts for		
	facts for the 2, 5 and 10	facts for the 3, 4 and 8	multiplication tables up to		
	multiplication tables,	multiplication tables	12 × 12		
	including recognising odd	multiplication tables	12 ^ 12		
	and even numbers				
	and even numbers	MENTAL CA	I CUI ATION		
		write and calculate	use place value, known	multiply and divide	perform mental
		mathematical statements	and derived facts to	numbers mentally	calculations, including
		for multiplication and	multiply and divide	drawing upon known facts	with mixed operations
		division using the	mentally, including:	arawing apon kine in races	and large numbers.
		multiplication tables that	multiplying by 0 and 1;		
		they know, including for	dividing by 1; multiplying		
		two-digit numbers times	together three numbers		
		one-digit numbers, using	S		
		mental and progressing to			
		formal written			
		methods(appears also in			
		written methods)			
	show that multiplication		recognise and use factor	multiply and divide whole	
	of two numbers can be		pairs and commutativity	numbers and those	
	done in any order		in mental calculations	involving decimals by 10,	
	(commutative) and		(appears also in properties	100 and 1000	
	division of one number by		of numbers)		
	another cannot				

WRITTEN CALCULATION					
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, FACT	ORS, PRIMES, SQUARE AND	CUBE NUMBERS	
PROPERTIES OF	NOWIBERS: WIGHTIPLES, FACT	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 (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers, and the notation for squared () and cubed (3)	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) calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm) and cubic metres (m), and extending
				to other units such as mm and km (copied from measures)
	ORDER OF C	PERATIONS		
				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
	1	PROBLEM	SOLVING		
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 to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, 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 addition, subtraction, multiplication and division solve problems involving similar shapes where the scale factor is known or can be found (copied from ratio and proportion)