



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.)	Revision of previous years.	
	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.	Revision of previous years.	Revision of previous years.	
		MENTAL CALCU				
		Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including 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.	Revision of Year 2.	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 equivalent.s (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 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.	
		Wictious.y		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 pairs and commutativity in mental calculations. (repeated)	·	Identify common factors, common multiples and prime numbers.		
				Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).	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 .		





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.		
	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.)	Revision from Year Four.	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	
calculating the answer	arrays, repeated addition,	and division, including	distributive law to	knowledge of factors and	division.	
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	Revision from Year Five.	
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	
				division, including scaling	scale factor is known or can	
				by simple fractions and	be found.	
				problems involving simple	(Copied from Ratio and Proportion.)	
				rates.	i roportion. <i>j</i>	