



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 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 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		



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	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		recognise and us factor pairs and commutativity ir mental calculatio (appears also in Properties of Num	า วทร	multiply and divid whole numbers a those involving de by 10, 100 and 10	nd ecimals	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	4 digi two-d a form methe multi	ply numbers up to ts by a one- or ligit number using nal written od, including long plication for two- numbers	digits by using th	y multi-digit numbers up to 4 y a two-digit whole number ne formal written method of ultiplication



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	DRODERTIES OF	NUMBERS: MULTIPLES, FACT		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	two-digit formal wi division w context d by a two- the forma division, a whole nu or by rou context <i>use written</i> where the	mbers up to 4-digits by a whole number using the ritten method of short where appropriate for the ivide numbers up to 4 digits digit whole number using al written method of long and interpret remainders as mber remainders, fractions, nding, as appropriate for the <i>n division methods in cases</i> <i>answer has up to two decimal</i> pied from Fractions (including
Year 1	Year 2	Year 3	Year 4	Year 5		Year 6
			recognise and use fac pairs and commutativ mental calculations (repeated)		finding a imon	identify common factors, common multiples and prime numbers and prime factors
				know and use the vocabulary of prin numbers and con (non-prime) num	me nposite	use common factors to simplify fractions; use common multiples to express fractions in the same
				establish whethe number up to 100 and recall prime up to 19	0 is prime	denomination (copied from Fractions)



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	recognise and use square numbers and cube numbers, and the notation for squared () and cubed 3 ()	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ³ (cm) and cubic metres (m), and extending to other units ³ such as mm and km (copied from Measures)
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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		
	INV	ERSE OPERATIONS, ESTIMA	TING AND CHECKING ANS	NERS		
		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)	Consolidate using inverse to check answers	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 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	solve problems involving addition, subtraction, multiplication and division including scaling by simple fractions and problems involving simple rates		
				solve problems involving multiplication and division,	solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)		



