

	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</i> <i>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					
	1	MENTAL CALCU	JLATION	ł				
		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		recognise and use factor pairs and	multiply and divide whole numbers and	associate a fraction with division and calculate			



	numbers can be done in any order (commutative) and division of one number by another cannot			commutativity mental calculat (appears also in Properties of Numbers)	tions	those involving decimals by 10, and 1000		decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) (copied from Fractions)
		WRITTEN (CALCU	JLATION	T		1	
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 t numl digit	iply two-digit three-digit bers by a one- number using al written it	to 4 c or tw using writte incluc multi two-c	ply numbers up digits by a one- o-digit number g a formal en method, ding long plication for digit numbers	to 4 dig number method	y multi-digit numbers up gits by a two-digit whole r using the formal written d of long multiplication
					to 4 d digit	e numbers up digits by a one- number using ormal written	a two-c the forr	numbers up to 4-digits by ligit whole number using mal written method of ivision where appropriate



	PROPERTIES OF NUM	MBERS: MULTIPLES, FACT	div int ap co	ethod of short vision and erpret remainders propriately for the ntext E AND CUBE NUMB	up to 4 c whole nu written n and inter number by round the conter use writte where the decimal p (including	ontext divide numbers digits by a two-digit umber using the formal nethod of long division, rpret remainders as whole remainders, fractions, or ding, as appropriate for ext on division methods in cases answer has up to two claces (copied from Fractions g decimals))
Year 1	Year 2	Year 3	Year 4	Year 5		Year 6
			recognise and use factor pairs and commutativity in ment calculations (repeated)	-	g pairs of common umbers. ne ime factors factors (non- er a 00 is prime	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)



	recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ (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		
	INVER	SE OPERATIONS, ESTIMA	TING AND CHECKING AN	SWERS			
		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 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	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)		