

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, 6, 8, 50 and 100 (copied from Number and Place Value)	count in multiples of 7, 9, 25 and 1 000 (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, 6 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up to 12 × 12	,			
MENTAL CALCULATION							
		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 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 decimals 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. <sup>3</sup> / <sub>8</sub> ) (copied from Fractions)		



			Multiply and divi whole numbers a those involving decimals by 10 a 100.	and	
			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 written methods in line with the calculation policy (appears also in Mental Methods)	multiply two-digit and three-digit numbers by a one-digit number using written method in line with the calculation policy	multiply numbers up to 4 digits by a one- or two-digit number using a written method, including long multiplication for two-digit numbers in line with the calculation policy	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication by the end of year 6 in line with the calculation policy
				divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders	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



				appropriately for the context	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 decime places (copied from Fractions (includin decimals))	
		OF NUMBERS: MULTIPLES,	FACTORS, PRIMES, SQUA	ARE AND CUBE NUMBERS		
Year 1	Year 2	Year 3	Year 4	Year 5		Year 6
		Understand and use the term factors and multiples in context.	recognise and use factor pairs and commutativity in mental calculations (repeated)	Identify multiples and factors, including finding factor pairs of a number common factors of two numbers know and use the vocabulary of prime numbers, prime factors composite (non- prime numbers establish whether a number up to 100 is primand recall prime numbers up to 19	er, and G. G and	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)



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		recognise and use square numbers and cube numbers, and the notation for squared () <sup>2</sup> and cubed ()	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre  subed (cm) and cubic

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 (BODMAS)		
	IN	VERSE OPERATIONS, ESTIMA	ATING 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	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 equals sign solve problems involving multiplication and	solve problems involving addition, subtraction, multiplication and division solve problems involving similar shapes where the		
				division, including scaling by simple fractions and problems involving simple rates	scale factor is known or can be found (copied from Ratio and Proportion)		