



	MULTIPLICATION & DIVISION FACTS								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
EYFS Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally Adults will focus on modelling counting above 10 in 1s(some children are familiar with other counting patterns e.g. 2s and 10s). Halving quantities by sharing into two	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) 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	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)	Year b			
equal groups. Links made to halving is the opposite, or inverse, of doubling.									
Ŭ			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	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers			













			progressing to formal written methods (appears also in Written Methods)	s n fa cu (a P	ogether three numbers ecognise and u actor pairs and commutativity nental calculat appears also in Properties of Numbers)	use d in	multiply and di whole numbers those involving decimals by 10 and 1000	s and	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 CALCULAT	ION					
EYFS	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 th numbe one-di using t writte	oly two-digit nree-digit ers by a ligit number formal en layout	up to one- o numb forma metho long r for tw numb		to 4 di numbe writter multip	ly multi-digit numbers up gits by a two-digit whole er using the formal n method of long lication
						to 4 d digit r	e numbers up ligits by a one- number using ormal written	a two- the for	numbers up to 4-digits by digit whole number using mal written method of livision where











ractors and composite (non-prime) numbers same denomination (copied from Fractions) establish whether a number up to 100 is prime and recall prime same denomination						method of short division and interpret remainders appropriately for the context	divide r by a tw using th method interpro- number or by rc for the use writ cases writ two dec	riate for the context numbers up to 4 digits o-digit whole number ne formal written d of long division, and et remainders as whole r remainders, fractions, ounding, as appropriate <u>context</u> ten division methods in here the answer has up to imal places (copied from s (including decimals))
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. identify common factors, common multiples and prime numbers. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers wse common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)								
	EYFS	Year 1	Year 2	Year 3	recognise and use factor pairs and commutativity in mental calculation	identify multipl factors, includin finding all factor of a number, an common factor two numbers. know and use t vocabulary of p numbers, prime factors and con (non-prime) nu establish wheth number up to 1 prime and reca numbers up to	ng or pairs nd rs of he orime e nposite mbers ner a LOO is Il prime 19	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the











	cube numbers, and the notation for squared (²) and cubed (³)	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								
EYFS	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)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy			







			PROBLEM SOLVING			
EYFS	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 division, including scaling by simple fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division sinilar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)





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