Multiplication and Division



	Multiplication and Division Facts							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Count groups of the same number of objects and add them together	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 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)			
Automatically recall double facts up to 5+5		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 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	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	numbers, using mental and progressing to formal written methods (appears also in Written Methods)	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. 3/8) (copied from Fractions)		

	Written Calculation						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
EYFS	Year 1	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	Year 4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout	Year 5 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	Year 6 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
			Methods)		divide numbers up to 4 digits by a one-digit number using the formal written method of short division and	divide numbers up to 4- digits by a two-digit whole number using the formal written method of short division where	
					interpret remainders appropriately for the context	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						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				recognise and use factor	identify multiples and	identify common
				pairs and commutativity	factors, including	factors, common
				in mental calculations	finding all factor pairs of	multiples and prime
				(repeated)	a number, and common	numbers
					factors of two numbers.	
					know and use the	use common factors to
					vocabulary of prime	simplify fractions; use
					numbers, prime factors	common multiples to
					and composite (non-	express fractions in the
					prime) numbers	same denomination
					establish whether a	
					number up to 100 is	(copied from Fractions)
					prime and recall prime	
			Order of Operations		numbers up to 19	
			Order of Operations			
						use their knowledge of
						the order of operations
						to carry out calculations involving the four
						operations
		1	Charles Cations tions and Charles	-Li A		operations
Inverse Operations, Estimating and Checking Answers						
			estimate the answer to	estimate and use		use estimation to check
			a calculation and use	inverse operations to		answers to calculations
			inverse operations to	check answers to a calculation		and determine, in the
			check answers (copied from Addition and	(copied from Addition		context of a problem, levels of accuracy
			Subtraction)	and Subtraction)		levels of accuracy
			Subtraction	מווע שטנו מכנוטוו)		