

			MULTIPLICATION & DIVISION F	ACTS		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Make pairs from small quantities and recognise that sometimes there will be one left over (copied from Number and Place Value)	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)	<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)	
Learn that double means 'twice as many' Share to make equal groups and recognise that items may be left over		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		
		ł	MENTAL CALCULATION		L	
			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		recognise and use	multiply and divide	associate a fraction with



		multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		factor pairs an commutativity mental calcula (appears also in Properties of Numbers)	in those involvir	ng decimal fraction
			WRITTEN CALCULAT			
EYFS	Year 1	Year 2calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	Year 3 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)	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
					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



					appropriately for the context	interpre number or by ro for the o use writt cases wh two deci	of long division, and et remainders as whole remainders, fractions, unding, as appropriate context en division methods in there the answer has up to mal places (copied from s (including decimals))
		ROPERTIES OF NUMBERS: M					
EYFS	Year 1	Year 2	Year 3	Year 4 recognise and use factor pairs and commutativity in mental calculations (repeated)	Year 5identify multiplfactors, includirfinding all factorof a number, arcommon factortwo numbers.know and use tvocabulary of pnumbers, primefactors and com(non-prime) nuestablish whethnumber up to 1prime and recalnumbers up to	ng r pairs nd s of he rime posite mbers her a 00 is Il prime	Year 6 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 u square number cube numbers, notation for squ (²) and cubed (³	ise s and and the Jared	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)



	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 OPERA	TIONS, 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		
Engage in problem solving linked to familiar stories, from children's suggestions or real problems which arise as they play (copied from addition and subtraction)	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		