

**Condover Church of England Primary School** 

Love Each Other and Know We Are Loved

Love

Forgiveness

Trust



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) recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value)  recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	count in multiples of 6, 7, 9, 25 and 1000 (copied from Number and Place Value)  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)			
		MENTAL CALCU	LATION				
		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		











associate a fraction with division and calculate decimal

divide numbers up to 4-digits by a

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recognise and use

factor nairs and



	done in any order (commutative) and division of one number by another cannot		commutativity i mental calculati (appears also in Properties of Nun	those involving d ons by 10, 100 and 10	ecimals fraction equivalents (e.g.
		WRITTEN	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 formal written methods	multiply two-digit and three-digit numbers by a one- digit number using formal written layout	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	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication



(appears also in Mental

Methods)

show that multiplication

of two numbers can be







divide numbers up to

multiply and divide

whole numbers and

National Centre for Excellence in the Teaching of Mathematics

4 digits by a one-digit | two-digit whole number using the

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				numb forma metho division remai	priately for the	formal widivision we context digits by a using the long division remainder remainder ounding, context use writter where the	ritten method of short where appropriate for the ivide numbers up to 4 a two-digit whole number formal written method of ion, and interpret ars as whole number ars, fractions, or by as appropriate for the an division methods in cases answer has up to two decimal bied from Fractions (including
	PROPERTIES OF I	NUMBERS: MULTIPLES, FAC	TORS, PRIMES, SQUAR	E AND	CUBE NUMBERS		
Year 1	Year 2	Year 3	Year 4		Year 5		Year 6
			recognise and use factorial pairs and commutation		identify multiples factors, including		identify common factors, common multiples and
			in mental calculation	S	all factor pairs of		prime numbers
			(repeated)		number, and com		
					factors of two nu know and use the		use common factors to
					vocabulary of pri		simplify fractions; use











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	numbers, prime factors and composite (non- prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19	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 (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³ (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		
	IN	VERSE OPERATIONS, ESTIMA	TING 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		











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







