



Multiplication and Division									
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Multiplication and Division facts	I can explore counting on in steps of 2 from zero	I can count in multiples of twos, fives and tens to 50 (copied from Number and Place Value)	l can count in steps of 2, 3, and 5 from O, and in tens from any number, forward or backward (copied from Number and Place Value)	I can count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value) I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables I can recall multiplication tables through doubling, by connecting the 2, 4 and 8 multiplication tables	I can count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value) I can recall multiplication and division facts for multiplication tables up to 12 × 12	I can 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 calculation		I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	I can 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) I can recognise and use factor pairs and commutativity in	I can 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	I can multiply and divide numbers mentally drawing upon known facts I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	I can perform mental calculations, including with mixed operations and large numbers I can 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)		



Danson Primary School Maths Skills Progression: Multiplication and Division



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			mental calculations (appears also in Properties of Numbers)			
I can solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups. I can solve practical problems that involve grouping and sharing.	I can 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	I can calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	I can 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)	I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout	I can 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 I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication I can 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 long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context I can use written division methods in cases where the answer has up to two decimal places (copied from Fractions (including decimals
				I can recognise and use factor pairs and commutativity in mental calculations (repeated)	I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers I can establish whether a number up to 100 is prime and recall prime numbers up to 19 I can recognise and use	I can identify common factors, common multiples and prime numbers I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions) I can 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)
	problems that involve combining groups of 2, 5 or 10, or sharing into equal groups. I can solve practical problems that involve	problems that involve combining groups of 2, 5 or 10, or sharing into equal groups.problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of	problems that involve combining groups of 2, 5 or 10, or sharing into equal groups. I can solve practical problems that involve grouping and sharing.	I can solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups. I can solve practical problems that involve grouping and sharing.I can solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacherI can calculate mathematical statements for multiplication and division within the multiplication (x), division (÷) and equals (=) signsI can write and calculate multiplication and division within the multiplication (x), division (÷) and equals (=) signsI can write and calculate multiplication (x), including for times one-digit numbers, using multiplication of two numbers can be done in any order (commutative) and division of one number byI can show that multiplication for two digit numbers times one-digit numbers, also in Mental Methods)	I can solve practical problems that involve combining groups of 2, 5 or 10, or sharing.I can solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacherI can calculate mathematical statements for multiplication tables and write them using the asswer using concrete objects, pictorial representations and arrays with the support of the teacherI can solve one-step multiplication tables and write them using the musing the multiplication (x), division (±) and equals (=) signsI can write and calculate multiplication and division using the multiplication tables that they know, including for two-digit numbers, using mental and progressing to formal written methods (appears also in Mental Methods)I can multiplication is and three-digit number using formal written layoutI can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannotI can recognise and use factor pairs and commutativity in mental calculations	I can solve practical problems that invoke combining groups of 2,5 or 10, or sharing grouping and sharing.I can calculate that invoke problems involving multiplication and division, the teacherI can calculate mathematical statements for multiplication and division within the multiplication and division within the multiplication and division (c) and the teacherI can calculate mathematical statements for multiplication and division under the multiplication and division under the multiplication and division (c) and the teacherI can calculate mathematical statements for multiplication and division under the multiplication (c) division (c) and the teacherI can show that multiplication (c) division (c) and the done in any order (commutative) and division of one number by another cannotI can recognise and use formal written methal and the calculations formal written methal and the calculateI can recognise and use formal written methal and interpret remainders and factors, including for a unmber sup to calculate multiplication (c) and division of one number by another cannotI can recognise and use formal written methal and the calculations (repeated)I can recognise and use factors of two numbers. I can establish whether a number, sprine factors and factors, including for a number, sprine factors and composite (non-prime) numbersI can set the vocabulary of prime a number, up to 10 lisI can establish whether a numbers up to 10 lisI can establish whether a number, sprine factors and composite (non-prime) numbersI can identify multiples for ha composite (non-prime) numbers



Danson Primary School Maths Skills Progression: Multiplication and Division



Inverse operations			I can estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	I can estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)	cube numbers, and the notation for squared (²) and cubed (³)	I can use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
Problem solving	I can 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	I can solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	I can 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	I can 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	I can solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes I can 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	I can solve problems involving addition, subtraction, multiplication and division I can solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)