



# Wheatlands Primary School

## Maths - Skills Progression (EYFS/KS1/KS2)

### Multiplication and Division



	EYFS Nursery Reception ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Recall, Represent, Use:</b>	<p>Explore the composition of numbers to 10.</p> <p>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.</p> <p>Automatically recall number bonds up to 5 and some number bonds to 10, including double facts.</p>		<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</p> <p style="text-align: center;"><b>Autumn 4 Spring 1</b></p>	<p>Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables.</p> <p style="text-align: center;"><b>Autumn 3</b></p>	<p>Recall multiplication and division facts for multiplication tables up to 12 x 12.</p> <p>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.</p> <p>Recognise and use factor pairs and commutatively in mental calculations.</p> <p style="text-align: center;"><b>Autumn 4 Spring 1</b></p>	<p>Identify multiples and factors, including finding all factors pairs of a number, and common factors of two numbers.</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19.</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>).</p> <p style="text-align: center;"><b>Autumn 4</b></p>	<p>Identify common factors, common multiples and prime numbers.</p> <p>Use estimation to check answers to calculations and determine, in the context of the problem, an appropriate degree of accuracy.</p> <p style="text-align: center;"><b>Autumn 2</b></p>



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Calculations:	<p>Explore the composition of numbers to 10.</p> <p>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.</p>		<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs.</p> <p style="text-align: center;">Autumn 4 Spring 1</p>	<p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p> <p style="text-align: center;">Autumn 3 Spring 1</p>	<p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layouts.</p> <p style="text-align: center;">Spring 1</p>	<p>Multiply numbers up to 4 digits by a one-digit or two-digit number using written formal method, including long multiplication for two-digit numbers.</p> <p>Multiply and divide numbers mentally drawing upon known facts.</p> <p>Divide numbers up to 4 digits by a one-digit number using formal written method of short division and interpret remainders appropriately for the context.</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</p> <p style="text-align: center;">Autumn 4 Spring 1 Summer 1</p>	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</p> <p>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.</p> <p>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p> <p>Perform mental calculations, including with mixed operations and large numbers.</p> <p style="text-align: center;">Autumn 2</p>



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	EYFS Nursery Reception ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Solve Problems:</b>	Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.	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 problem 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 multiplication and division, including scaling by simple fractions and problems involving simple rates.	Solve problems involving addition, subtraction, multiplication and division.
		Summer 1	Autumn 4 Spring 1	Spring 1	Spring 1	Autumn 4 Spring 1	Autumn 2
<b>Combined Operations:</b>						Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Use their knowledge of the order of operations to carry out calculations involving the four operations.
						Spring 1	Autumn 2

<b>Vocabulary:</b>	Double Equal groups Double facts Doubling More Same/different Continue Pattern Next How many, altogether Count, groups More, fewer, less, amount Half, halving, share, fair Equal, each Uneven Solution Odd, even Odd number, even number	<b>In addition to previous years:</b> Array Row Column Twice Total Equal groups Same, different Share, sharing Equally, fairly Total, altogether Each Bar Model Equal parts Groups of Lots of Fact family Unequal groups	<b>In addition to previous years:</b> Repeated addition Number of groups Times Times-table Multiply Multiplication More than Less than Multiplication facts Division	<b>In addition to previous years:</b> Short division Grid method Division facts Divide ( $\div$ ), Division Division fact Remainder One-step Two-step Multi-step Repeated addition <b>Inverse Operation</b> Sets of x groups of y	<b>In addition to previous years:</b> Grouped Factor Product Multiple Calculate Calculation Correspondence Scaling	<b>In addition to previous years:</b> Prime Prime Factors Long division, Divisor Dividend Prime number Composite number Square ( $x^2$ ) Cube ( $x^3$ )	<b>In addition to previous years:</b> Common factor Common multiple Brackets
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