



Maths Multiplication and Division Progression at Meanwood C of E Primary School



<b>CURRICULUM SUBJECT:</b>		<b>Maths</b>	<b>SUBJECT LEADS:</b>	<b>Catherine Bowie</b>		
What are the Y6 end of school end goals?		<p>To have a solid understanding of number and be confident using number in everyday situations</p> <p>To use basic maths to solve problems that involve application and thought</p> <p>To not fear maths and to see it as a gateway to improving understanding of the wider world</p> <p>To be able to use a range of strategies which provide recognised, reasonable solutions</p> <p>To have a can-do attitude to maths and be resilient when faced with difficult challenges</p>				
How is the curriculum at Meanwood C of E Primary School sequenced towards these end points?						
<b>Multiplication and Division</b>						
<b>Recall/Use</b>						
<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<ul style="list-style-type: none"> <li>Explore and represent patterns with numbers to 10 including evens and odds, double facts and how quantities can be distributed evenly</li> </ul> <p><b>Summer</b></p>		<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> </ul> <p><b>Spring 2</b></p>	<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> </ul> <p><b>Autumn 3</b> <b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>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</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> </ul> <p><b>Autumn 4</b></p>	<ul style="list-style-type: none"> <li>identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</li> <li>know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> <li>establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>recognise and use square numbers and cube numbers, and the notation for</li> </ul>	<ul style="list-style-type: none"> <li>identify common factors, common multiples and prime numbers</li> <li>use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> </ul> <p><b>Autumn 2</b></p>



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				Spring 1	squared ( <sup>2</sup> ) and cubed ( <sup>3</sup> ) Autumn 3	
<b>Calculations</b>						
		<ul style="list-style-type: none"> <li>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</li> </ul> <p><b>Spring 2</b></p>	<ul style="list-style-type: none"> <li>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</li> </ul> <p><b>Autumn 3</b> <b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> </ul> <p><b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>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</li> <li>multiply and divide numbers mentally drawing upon known facts</li> <li>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</li> <li>multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li> </ul> <p><b>Autumn 3</b> <b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>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</li> <li>divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting</li> </ul>



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						<p>remainders according to the context</p> <ul style="list-style-type: none"> <li>perform mental calculations, including with mixed operations and large numbers</li> </ul> <p><b>Autumn 2</b></p>
<b>Solve Problems</b>						
	<ul style="list-style-type: none"> <li>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</li> </ul> <p><b>Summer 1</b></p>	<ul style="list-style-type: none"> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul> <p><b>Spring 2</b></p>	<ul style="list-style-type: none"> <li>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</li> </ul> <p><b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>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</li> </ul> <p><b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li> <li>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</li> </ul> <p><b>Autumn 3</b> <b>Spring 1</b></p>	<ul style="list-style-type: none"> <li>solve problems involving addition, subtraction, multiplication and division</li> </ul> <p><b>Autumn 2</b></p>
<b>Combined</b>						
					<ul style="list-style-type: none"> <li>solve problems involving</li> </ul>	<ul style="list-style-type: none"> <li>use their knowledge of the</li> </ul>



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					addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <b>Spring 1</b>	order of operations to carry out calculations involving the four operations <b>Autumn 2</b>
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