



**Thomson House School**

**Maths Medium Term Guide**

**Year 3**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12				
<b>Autumn</b>	<p><b>Place Value and Counting</b></p> <ul style="list-style-type: none"> <li>• Understands place value in numbers up to 20.</li> <li>• Can use language and know what it means is: equal, more than, less than, most, least for numbers to 100.</li> <li>• Can understand place value to 100.</li> <li>• Can compare and order numbers from 0 to 100.</li> <li>• Part Whole to 100.</li> <li>• Can correctly use &lt; &gt; signs.</li> <li>• Can count to and across 100.</li> <li>• Can identify one more and one less from a given number.</li> <li>• Count beyond 100 to 1000 and discuss the pattern beyond 100.</li> <li>• Find one more and on less than numbers beyond 100.</li> <li>• Recognise the place value of each digit in three digit number.</li> <li>• Compare and order numbers up to 1000.</li> <li>• Read and write numbers up to 1000 in numerals and in words.</li> <li>• Identify, represent and estimate numbers using different representations.</li> <li>• Find Part Part Whole up to 1000 (<i>should this be here or in Addition? EB &amp; KS</i>)</li> <li>• Solve number problems and practical problems involving these ideas.</li> </ul>				<p><b>Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>• Throughout- estimate answers to calculations.</li> <li>• Find 10 or 100 more or less than given number.</li> <li>• Add and subtract numbers mentally, including a three digit number and ones, tens and hundreds.</li> <li>• Identify the relationship between addition and subtraction (including commutative and inverse) .</li> <li>• Add numbers up to three digits using formal method of addition (Part 1 expanded method)</li> <li>• Solve problems including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>				<p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>• Show multiplication in arrays.</li> <li>• Use arrays to identify that multiplication is commutative and division is not.</li> <li>• Understand the relationship between multiplication and division.</li> </ul>				<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>• Throughout- expanded method of addition and subtraction.</li> <li>• Count up and down in tenths.</li> <li>• Recognise that tenths arise from dividing an object into 10 equal parts.</li> <li>• Can add tenths up to 1.</li> <li>• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> <li>• Measure the perimeter of simple 2-D shapes.</li> <li>• Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul>			

<b>Spring</b>	<b>Fractions</b> <ul style="list-style-type: none"> <li>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</li> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>Recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>Add fractions with the same denominator within one whole e.g. <math>5/7 + 1/7 = 6/7</math>.</li> <li>Subtract fractions with the same denominator within one whole e.g. <math>6/7 - 1/7 = 5/7</math>.</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> <li>Solve fraction problems.</li> </ul>	<b>Time</b> <ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> <li>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</li> <li>Number bonds to 6.</li> <li>Number bonds to 60. Fractions of a clock- <math>\frac{1}{2}</math> <math>\frac{1}{4}</math> <math>\frac{1}{12}</math>.</li> <li>Tell/ write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>Compare durations of events e.g. to calculate the time taken by particular events or tasks.</li> </ul>	<b>Shape</b> <ul style="list-style-type: none"> <li>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.</li> <li>Recognise angles as a property of shape or a description of a turn.</li> <li>Right angles.</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>	<b>Multiplication and Division</b> <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4, 6 and 8 times tables.</li> <li>Understand the distributive law.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <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>	<b>Consolidation and review of place value.</b>	
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<b>Summer</b>	<b>Statistics</b> <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables.</li> <li>Solve one-step and two-step questions e.g. 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.</li> </ul>	<b>Formal method of all 4 operations</b> <ul style="list-style-type: none"> <li>Add numbers up to three digits using formal method of columnar addition and subtraction.</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>	<b>Consolidation</b>	<b>Assessments</b>	<b>End of Year Projects</b>	
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Maths meetings used throughout the year when necessary to consolidate place value, counting and fluency of mental maths skills as well as:

- Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.
- Add and subtract numbers mentally, including a three-digit number and ones.
- Add and subtract numbers mentally, including a three-digit number and tens.
- Add and subtract numbers mentally, including a three-digit number and hundreds.
- Roman numerals