

## Maths Long Term Planning : Year 2

Autumn 1			
Number and Place Value	Addition and Subtraction	Measures/ Statistics	Additional Mental Maths
<ul style="list-style-type: none"> <li>Read and write numbers to at least 100 in numerals and in words.</li> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Identify, represent and estimate numbers using different representations including the number line.</li> <li>Compare and order numbers from 0 up to 100: use &lt; &gt; and = signs.</li> <li>Use place value and number facts to solve problems.</li> <li>Count in steps of 2, 3 and 5 from 0, and in tens from any number, forwards and backwards.</li> </ul>	<ul style="list-style-type: none"> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.</li> <li>Show that addition of two number can be done in any order (commutative) and subtraction of one number from another cannot.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise and use symbols for £ and p, combine amounts to make a particular value.</li> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Identify and describe properties of 2D shapes, including number of side.</li> <li>Tell the time to the nearest <math>\frac{1}{4}</math> hour.</li> </ul>	<ul style="list-style-type: none"> <li>Identifying odd and even numbers</li> <li>Towards the end of half term, introduce 10x table when ready</li> <li>Guess my number</li> <li>Roll the dice game; adding to numbers until they reach 20</li> <li>Measure- What do I measure __ in?</li> <li>True or false questions</li> </ul>

Autumn 2			
Number and Place Value/Statistics	Addition and Subtraction	Measures	Additional Mental Maths
<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Identify, represent and estimate numbers using different representations including the number line.</li> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally.</li> </ul>	<ul style="list-style-type: none"> <li>Find different combinations of coins that equal the same amounts of money.</li> <li>Solve simple problems in practical context involving addition and subtraction of money of the same unit, including giving change.</li> <li>Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</li> </ul>	<ul style="list-style-type: none"> <li>Counting up and back in 1s, 2s, 5s and 10s from various starting points</li> <li>Write numbers up to 100 in numerals and words.</li> <li>Identifying odd and even numbers – link to doubling and halving</li> <li>Roll the dice game; make 100 by doubling, sticking or times by 10 in 5 rolls</li> <li>Target board- Different ways to make numbers</li> <li>10x table, introduce 2x table when ready</li> <li>Double and halving- numbers to 20</li> <li>Guess my number</li> <li>Fractions <math>\frac{1}{2}</math> <math>\frac{1}{4}</math> <math>\frac{1}{3}</math> recognise</li> <li>Time- <math>\frac{1}{4}</math> hour intervals</li> <li>Patterns of shapes and number</li> <li>Measures &lt; &gt; = symbols</li> </ul>

Spring 1			
Number & Place Value. Addition & subtraction	Multiplication and division	Measures	Additional Mental Maths
<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally.</li> </ul>	<ul style="list-style-type: none"> <li>Recall and use multiplication and division facts from the 2, 5 and 10 times tables, including recognising odd and even numbers.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the <math>\times \div =</math> signs.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> <li>Show that the multiplication of 2 numbers can be done in any order but division cannot. (commutative)</li> </ul>	<ul style="list-style-type: none"> <li>Tell the time to the nearest <math>\frac{1}{4}</math> hour.</li> <li>Identify and describe the properties of 2D and 3D shapes.</li> <li>Identify 2D shapes on the surface of 3D shapes.</li> <li>Compare and sort common 2D and 3D shapes and everyday objects.</li> </ul>	<ul style="list-style-type: none"> <li>Counting up and back in 1s, 2s, 5s and 10s from various starting points</li> <li>Mentally add multiples of 10</li> <li>Double and halve numbers to 20</li> <li>Target numbers: Different ways of making numbers</li> <li>Patterns in number</li> <li>Mental arithmetic of 4 operations.</li> <li>Guess my number</li> <li>Fractions <math>\frac{1}{4}</math> <math>\frac{1}{2}</math> <math>\frac{1}{3}</math></li> <li>Estimation - Estimate measurements of different objects e.g. How heavy is packet of crisps? 35g 35cm 35ml 35mm</li> <li><math>&lt; &gt; =</math> questions on measurement and number</li> <li>Statistics- Show children a graph and ask them questions to interpret data</li> <li>Spot the mistake questions</li> </ul>

Spring 2			
Number & Place Value. Addition & subtraction	Fractions	Measures	Additional Mental Maths
<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise. Find, name and write fractions <math>\frac{1}{2}</math> <math>\frac{1}{3}</math> <math>\frac{1}{4}</math> <math>\frac{2}{4}</math> <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</li> <li>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</li> </ul> <p><u>Multiplication and division</u> Continue to revisit Spring 1 objectives as needed.</p>	<ul style="list-style-type: none"> <li>Identify and describe the properties of lines of symmetry in a vertical line of 2D shapes.</li> <li>Choose and use appropriate standard units to estimate and measure length/height in any directions, mass, temperature, capacity to the nearest appropriate unit.</li> <li>Compare and order lengths, mass, volume/capacity and record the results using <math>&gt; &lt; =</math>.</li> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul>	<ul style="list-style-type: none"> <li>Counting up and back in 1s, 2s, 5s and 10s from various starting points</li> <li>Estimation- complex maths questions that they can estimate answer e.g. <math>326 + 122</math></li> <li>Double and halving to 50 including skills to halve more complex numbers e.g. 38</li> <li>Mental arithmetic of 4 operations.</li> <li>Time <math>\frac{1}{4}</math> hour intervals</li> <li>Recognising coins and making given amounts</li> <li>Different ways of making amounts</li> </ul>

Summer 1			
Number and Place Value	4 operations + - x ÷	Measures	Additional Mental Maths
<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Count in 2, 3, 5, 10 forwards and backwards from any given number.</li> <li>Identify, represent and estimate numbers using different representations including the number line.</li> </ul>	<ul style="list-style-type: none"> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the <math>\times</math> <math>\div</math> = signs.</li> <li>Solve problems involving addition, subtraction, multiplication and division using arrays, mental methods, blank number lines and number facts.</li> </ul>	<ul style="list-style-type: none"> <li>Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for <math>\frac{1}{4}</math> <math>\frac{1}{2}</math> <math>\frac{3}{4}</math> turns.</li> <li>Order and arrange combinations of mathematical objects in patterns and sequences.</li> <li>Tell and write the time to five minutes, including quarter past/to the hour.</li> <li>Know the minutes in an hour and number of hours in a day.</li> <li>Compare and sequence intervals of time.</li> </ul>	<ul style="list-style-type: none"> <li>Double and halving numbers to 100</li> <li>Fractions- all fractions including equivalent</li> <li>Guess my shape</li> <li>Shape- similarities and differences between shapes</li> <li>Measures- What do you measure weight/length/capacity/temperature in?</li> <li>Similar/different numbers, shapes, patterns etc</li> <li>Statistics- Make a quick graph and ask children to interpret data from it</li> <li>True or false statements</li> <li>Maths vocabulary- say a word (e.g. total) and children write down the sign</li> </ul>

Summer 2			
Number and Place Value	4 operations + - x ÷	Measures	Additional Mental Maths
<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>Count in 2, 3, 5, 10 forwards and backwards from any given number.</li> <li>Identify, represent and estimate numbers using different representations including the number line.</li> </ul>	<ul style="list-style-type: none"> <li>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the <math>\times</math> <math>\div</math> = signs.</li> <li>Solve problems involving addition, subtraction, multiplication and division using arrays, mental methods, blank number lines and number facts.</li> <li>Inverse of number+</li> </ul>	<ul style="list-style-type: none"> <li>Tell and write the time to five minutes, including quarter past/to the hour.</li> <li>Choose and use appropriate standard units to estimate and measure length/height in any directions, mass, temperature, capacity to the nearest appropriate unit.</li> <li>Compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math> <math>&lt;</math> <math>=</math>.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate how numbers are commutative</li> <li>Fractions- Count in steps of <math>\frac{1}{4}</math> and <math>\frac{1}{2}</math></li> <li>Shapes- identify 2D shapes on the surface of 3D shapes</li> <li>Statistics- Interpret data</li> <li>True or false statements</li> <li>Spot the difference statements</li> <li>Maths vocabulary- what are the meanings of different technical language.</li> </ul>