

# Medium-term planning Autumn 1



YEAR 2

W	Topic	Curriculum objective
1	Number and place value: counting, reading and writing 2-digit numbers, place value	<ul style="list-style-type: none"> <li>To count in steps of 2, 3, and 5 from 0, and count in tens from any number, forward or backward.</li> <li>To recognise the place value of each digit in a two-digit number (tens, ones).</li> <li>To identify, represent and estimate numbers using different representations, including the number line.</li> <li>To compare and order numbers from 0 up to 100; use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs.</li> <li>To read and write numbers to at least 100 in numerals and in words.</li> <li>To use place value and number facts to solve problems.</li> </ul>
2	Addition: concrete, visual and number facts	<ul style="list-style-type: none"> <li>To solve problems with addition and subtraction:                             <ul style="list-style-type: none"> <li>Using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental and written methods.</li> </ul> </li> <li>To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>To add and subtract 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>To show that addition can be done in any order (commutative) and subtraction cannot.</li> <li>To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul>
3	Subtraction: concrete, visual and number facts	<ul style="list-style-type: none"> <li>To solve problems with addition and subtraction:                             <ul style="list-style-type: none"> <li>Using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental and written methods.</li> </ul> </li> <li>To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a 2-digit number and tens; two two-digit numbers; adding three one-digit numbers.</li> <li>To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul>
4	Multiplication and division: repeated addition and repeated subtraction	<ul style="list-style-type: none"> <li>To recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>To calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication, division and equals signs.</li> <li>To recognise and use the inverse relationship between multiplication and division in calculations.</li> <li>To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot.</li> <li>To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</li> </ul>
5	Geometry: properties of 3D and 2D shape	<ul style="list-style-type: none"> <li>To identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line.</li> <li>To identify and describe the properties of 3D shapes including the number of edges, vertices and faces.</li> <li>To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid.</li> <li>To compare and sort common 2D and 3D shapes and everyday objects.</li> </ul>
6	Measures: length, mass, capacity, money	<ul style="list-style-type: none"> <li>To choose and use appropriate standard units to estimate and measure length/ height in any direction; mass; temperature; volume and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.</li> <li>To compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math>.</li> <li>To recognise and use the symbols for pounds and pence; combine amounts to make a particular value</li> <li>To find different combinations of coins that equal the same amounts of money</li> <li>To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>
<b>Assess and review</b>		<ul style="list-style-type: none"> <li>To assess the half-term's work.</li> </ul>