

Mill Lane - Maths Progression Grid - Class 2

Term	Topic	Objectives
Autumn 1	Number and Place Value	Recognise the place value of each digit in a two-digit number (10s, 1s) Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward
	Addition and Subtraction	Recall and use addition and subtraction facts to 20 fluently. 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
	Multiplication and Division	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication (times)tables, including recognising odd and even numbers . Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs
Autumn 2	Fractions	write simple fractions , for example $\frac{1}{2}$ of $6 = 3$ Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, quantity or object. (third, quarter)
	Measurement	Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ (greater than and less than) Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers , scales, thermometers and measuring vessels
	Geometry (property of shape and position and direction)	Identify and describe the properties of 2-D shapes , including the number of sides , and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces . Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Compare and sort common 2D shapes and 3D shapes and everyday objects.

Spring 1	Number and place value	<p>Recognise the place value of each digit in a two digit number (10s, 1s)</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Count in steps of 2,3 and 5 from 0 from any number, forward and backward.</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Compare and order numbers from 0 up to 100; use < > and = signs</p>
	Addition and Subtraction	<p>Recall and use addition and subtraction facts to 20.</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <p>a two-digit number and 1s</p> <p>a two-digit number and 10s</p> <p>2 two-digit numbers</p> <p>adding 3 one-digit numbers</p>
	Multiplication and Division	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication (times)tables, including recognising odd and even numbers.</p> <p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p>Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot</p>
Spring 2	Fractions	<p>Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ and of a length, shape, set of objects or quantity. (third, quarter)</p> <p>Write simple fractions, for example $1/2$ of 6 = 3 and recognise the equivalence of $2/4 = 1/2$</p>
	Measurement	<p>Compare and order lengths, mass, volume/capacity and record the results using >, < and = (greater than and less than)</p> <p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p>Recognise and use symbols for pounds (£) and pence (p); Combine amounts to make a particular value find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p> <p>Find different combinations of coins that equal the same amounts of money.</p>
	Statistics	<p>Interpret and construct simple pictograms, tally charts, block diagrams and tables.</p> <p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</p> <p>Ask-and-answer questions about totalling and comparing categorical data.</p>
Summer 1	Number and Place Value	<p>Recognise the place value of each digit in a two digit number (10s, 1s)</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Count in steps of 2,3 and 5 from 0 from any number, forward and backward.</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Compare and order numbers from 0 up to 100; use < > and = signs</p> <p>Read and write numbers to at least 100 in numerals and in words.</p> <p>Use place value and number facts to solve problems .</p>
	Addition and Subtraction	<p>Recall and use addition and subtraction facts to 20 fluently.</p> <p>Solve problems with addition and subtraction – using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their</p>

		<p>increasing knowledge of mental and written methods</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <p>a two-digit number and 1s</p> <p>a two-digit number and 10s</p> <p>2 two-digit numbers</p> <p>adding 3 one-digit numbers</p> <p>Recall and use addition and subtraction fact to 20 fluently and derive and use related facts to 100.</p> <p>Show that addition of 2 numbers can be done in any order(commutative) and subtraction of 1 number from another cannot.</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>
	Multiplication and Division	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication (times)tables, including recognising odd and even numbers.</p> <p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs.</p> <p>Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot.</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems and contexts.</p>
Summer 2	Fractions	<p>Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ and of a length, shape, set of objects or quantity. (third, quarter)</p> <p>Write simple fractions, for example $1/2$ of 6 = 3 and recognise the equivalence of $2/4 = 1/2$</p>
	Measurement	<p>Compare and order lengths, mass, volume/capacity and record the results using >, < and = (greater than and less than)</p> <p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p>Recognise and use symbols for pounds (£) and pence (p); Combine amounts to make a particular value find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p> <p>Find different combinations of coins that equal the same amounts of money.</p> <p>Compare and sequence intervals of time.</p> <p>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.</p> <p>Know the number of minutes in an hour and the number of hours in a day</p>
	Geometry	<p>Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line.</p> <p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.</p> <p>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>Compare and sort common 2D shapes and 3D shapes and everyday objects.</p> <p>Order and arrange combinations of mathematical objects in patterns and sequences</p> <p>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 quarter, half and three-quarter turns (clockwise and anti-clockwise)</p>

Notes:

All children have an individual target which must be from the number or place value or calculation strands.

At the start of each lesson children will recap the previous week's learning – this will form what is often known as the oral and mental starter.

Objectives highlighted in yellow denote learning which is expected of the vast majority of children by the end of the year. Many children will exceed this.