



St. Katharine's Primary School Mathematics Progression Pathway Year 2

	Number				Measurement	Geometry		Statistics
Year	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
2	<p>Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward.</p> <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>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> <p><i>(White Rose Autumn Block 1)</i></p>	<p>Solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> -using concrete objects and pictorial representations, including those involving numbers, quantities and measures, -applying their increasing knowledge of mental and written methods. <p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> -a two-digit number and 1s, -a two-digit number and 10s, -2 two-digit numbers, -adding 3 one-digit numbers. <p>Show that addition of 2 numbers can be done in</p>	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication 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 (x), division (÷) 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,</p>	<p>Recognise, find, name and write</p> $\frac{1}{3}, \frac{1}{4}, \frac{2}{4} \text{ and } \frac{3}{4}$ <p>of a length, shape, set of objects or quantity.</p> <p>Write simple fractions, for example $\frac{1}{2}$ of 6 = 3 and recognise the equivalence $\frac{2}{4} = \frac{1}{2}$.</p> <p><i>(White Rose Summer Block 2)</i></p>	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</p> <p>Compare and order lengths, mass, volume/capacity and record the results using >, < and =.</p> <p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</p> <p>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</p>	<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 2-D and 3-D shapes and everyday objects.</p> <p><i>(White Rose Autumn Block 3)</i></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> <p><i>(White Rose Summer Block 3)</i></p>	<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> <p><i>(White Rose Summer Block 1)</i></p>



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	<p>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> <p><i>(White Rose Autumn Block 2)</i></p>	<p>including problems in contexts.</p> <p><i>(White Rose Spring Block 2)</i></p>		<p>of the same unit, including giving change.</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> <p><i>(White Rose Spring Block 1 for money, Spring Block 3 for length and height, Spring Block 4 for mass, capacity and temperature, Summer 4 for Time)</i></p>			
	<p>DfE Ready to Progress Materials: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1017683/Maths_guidance_KS_1_and_2.pdf</p> <p>Slides to support Ready to Progress and PD materials: https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/</p> <p>NCETM Mastery PD materials: https://www.ncetm.org.uk/resources/50639</p> <p>NCETM Mastery Assessment Materials:</p>						



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