



St. Katharine's Primary School Mathematics Progression Pathway Year 3

	Number				Measurement	Geometry		Statistics
Year	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Properties of Shape	Position and Direction	Statistics
3	<p>Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.</p> <p>Recognise the place value of each digit in a three-digit number (hundreds, tens, and ones).</p> <p>Compare and order numbers up to 1000.</p> <p>Identify, represent and estimate numbers using different representations. Read and write numbers up to 1000 in numerals and in words.</p> <p>Solve number problems and practical problems involving these ideas.</p> <p><i>(White Rose Autumn Block 1)</i></p>	<p>Add and subtract numbers mentally, including: -a three-digit number and ones, -a three-digit number and tens, -a three-digit number and hundreds.</p> <p>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</p> <p>Estimate the answer to a calculation and use inverse operations to check answers.</p> <p>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p> <p><i>(White Rose Autumn Block 2)</i></p>	<p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p> <p>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.</p>	<p>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.</p> <p>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</p> <p>Recognise and show, using diagrams, equivalent fractions with small denominators.</p> <p>Add and subtract fractions with the same denominator within one whole.</p> <p>Compare and order unit fractions, and fractions with the same denominators.</p> <p>Solve problems that involve all of the above.</p> <p><i>(White Rose Spring Block 5 and Summer Block 1)</i></p>	<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</p> <p>Measure the perimeter of simple 2-D shapes.</p> <p>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</p> <p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</p> <p>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,</p>	<p>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.</p> <p>Recognise angles as a property of shape or a description of a turn.</p> <p>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p> <p><i>(White Rose Summer Block 4)</i></p>		<p>Interpret and present data using bar charts, pictograms and tables.</p> <p>Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.</p> <p><i>(White Rose Summer Block 5)</i></p>



St. Katharine's Primary School Mathematics Progression Pathway Year 3

			<i>(White Rose Autumn Block 3 and Spring Block 1)</i>		afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events [for example to calculate the time taken by particular events or tasks]. <i>(White Rose Summer Block 2 for money, Spring Block 2 for length and perimeter, Summer Block 3 for Time and Spring block 4 for Mass and Capacity and temperature)</i>			
	<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>							