



Ready,  
Respectful,  
Safe

## Year 3 Maths Overview

### Cathcart Street Primary School 2023-2024

	Autumn 1	Spring 1	Summer 1
	Year 3 NC Objectives	Year 3 NC Objectives	Year 3 NC Objectives
Maths – 1 <sup>st</sup> half term	<p><b><u>NUMBER: Place Value</u></b></p> <ul style="list-style-type: none"> <li>Identify, represent and estimate numbers using different representations</li> <li>Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)</li> <li>Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li> <li>Read and write numbers up to 1,000 in numerals and words</li> <li>Compare and order numbers up to 1,000</li> <li>solve number problems and practical problems involving these ideas.</li> </ul> <p><b><u>NUMBER: Addition &amp; Subtraction</u></b></p> <p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>a 3-digit number and ones</li> <li>a 3-digit number and tens</li> <li>a 3-digit number and hundreds</li> </ul> <ul style="list-style-type: none"> <li>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> <li>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</li> <li>Estimate the answer to a calculation and use inverse operations to check answers</li> </ul>	<p><b><u>NUMBER: Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <i>n</i> objects are connected to <i>m</i> objects</li> </ul> <p><b><u>Measurement: Length and Perimeter</u></b></p> <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</li> <li>Measure the perimeter of simple 2-D shapes</li> </ul>	<p><b><u>NUMBER: Fractions</u></b></p> <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator within one whole</li> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> </ul> <p><b><u>MEASUREMENT: Money</u></b></p> <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts</li> </ul>

	Autumn 2	Spring 2	Summer 2
Maths – 2nd half term	<p><b>NUMBER: Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods</li> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> </ul>	<p><b>NUMBER: Fractions</b></p> <ul style="list-style-type: none"> <li>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>Compare and order unit fractions, and fractions with the same denominators</li> <li>Recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li> <li>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</li> <li>Solve problems that involve all of the above.</li> </ul> <p><b>Measurement: Mass and Capacity</b></p> <ul style="list-style-type: none"> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</li> </ul>	<p><b>MEASUREMENT: Time</b></p> <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</li> <li>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, am/pm, morning, afternoon, noon and midnight</li> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year</li> <li>Compare durations of events [for example to calculate the time taken by particular events or tasks].</li> </ul> <p><b>Geometry: Shape</b></p> <ul style="list-style-type: none"> <li>Recognise angles as a property of shape or a description of a turn</li> <li>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</li> <li>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables</li> <li>Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables</li> </ul>
	<p><b>Key Vocabulary: Building on vocabulary from KS1.</b></p>		

	Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions	Data / Statistics
	numbers to one thousand	formal written methods  column addition  column subtraction	product  multiples of four, eight, fifty and one hundred  scale up	leap year  twelve-hour clock  twenty-four hour clock  roman numerals i to xii	greater / less than ninety degrees  orientation same orientation different orientation	horizontal vertical  perpendicular lines parallel lines	numerator denominator  unit fraction non unit fraction  compare and order tenths	chart, bar chart, frequency table  Carroll diagram Venn diagram  axis axes  diagram