



Ready,  
Respectful,  
Safe

## Year 4 Maths Overview

### Cathcart Street Primary School 2023-2024

Maths – 1 <sup>st</sup> half term	Autumn 1	Spring 1	Summer 1
	Year 4 NC Objectives	Year 4 NC Objectives	Year 4 NC Objectives
	<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>Count in multiples of 6, 7, 9, 25 and 1,000</li> <li>Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones)</li> <li>Find 1,000 more or less than a given number</li> <li>Order and compare numbers beyond 1,000</li> <li>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value</li> <li>Round any number to the nearest 10, 100 or 1,000</li> <li>Count backwards through zero to include negative numbers</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> </ul> <p><b><u>NUMBER: Addition &amp; Subtraction</u></b></p> <ul style="list-style-type: none"> <li>Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> <li>Estimate and use inverse operations to check answers to a calculation</li> </ul>	<p><b><u>NUMBER: Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as <math>n</math> objects are connected to <math>m</math> objects</li> <li>Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</li> </ul> <p><b><u>Measurement: Length and Perimeter</u></b></p> <ul style="list-style-type: none"> <li>Convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> </ul>	<p><b><u>Number: Decimals</u></b></p> <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>Solve simple measure and money problems involving fractions and decimals to 2 decimal places</li> <li>Compare numbers with the same number of decimal places up to 2 decimal places</li> <li>Round decimals with 1 decimal place to the nearest whole number</li> <li>Recognise and write decimal equivalents to <math>1/4</math>, <math>1/2</math> and <math>3/4</math></li> </ul> <p><b><u>MEASUREMENT: Money</u></b></p> <ul style="list-style-type: none"> <li>Estimate, compare and calculate different measures, including money in pounds and pence</li> </ul> <p><b><u>MEASUREMENT: Time</u></b></p> <ul style="list-style-type: none"> <li>Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</li> <li>Read, write and convert time between analogue and digital 12- and 24-hour clocks</li> </ul>
	Autumn 2	Spring 2	Summer 2

<b>Maths – 2nd half term</b>	<p><b><u>Measurement: Area</u></b></p> <ul style="list-style-type: none"> <li>Find the area of rectilinear shapes by counting squares</li> </ul> <p><b><u>NUMBER: Multiplication and Division</u></b></p> <ul style="list-style-type: none"> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Count in multiples of 6, 7, 9, 25 and 1,000</li> </ul>	<p><b><u>NUMBER: Fractions</u></b></p> <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, families of common equivalent fractions</li> <li>Add and subtract fractions with the same denominator</li> <li>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> <li>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li> </ul> <p><b><u>Number: Decimals</u></b></p> <ul style="list-style-type: none"> <li>Recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>Compare numbers with the same number of decimal places up to 2 decimal places</li> <li>Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> <li>Recognise and show, using diagrams, families of common equivalent fractions</li> </ul>	<p><b><u>Geometry: Shape</u></b></p> <ul style="list-style-type: none"> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry</li> </ul> <p><b><u>Statistics</u></b></p> <ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul> <p><b><u>Geometry: Position and Direction</u></b></p> <ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>Plot specified points and draw sides to complete a given polygon</li> <li>Describe movements between positions as translations of a given unit to the left/right and up/down</li> </ul>
	<p><b>Vocabulary</b></p> <p><b>Key Vocabulary: Building on vocabulary from KS1 and Y3</b></p>		

	Number and Place Value	Multiplication and Division	Measure	Geometry (Position and Direction)	Geometry (Properties of Shape)	Fractions and Decimals	Data / Statistics
	tenths, hundredths decimal (places) round (to nearest) thousand more/less than negative integers count through zero Roman numerals to 100 = C	multiplication facts (up to 12x12) division facts inverse derive quotient divisor dividend integer scaling	convert analogue and digital 12- and 24- hour clocks  convert from hours to minutes; minutes to seconds; years to months; weeks to days  area of rectilinear shapes	coordinates  translation left/right up/down  quadrant  x-axis, y-axis  perimeter and area	quadrilaterals  triangles  right angle acute and obtuse angles  degrees  symmetric	families of common equivalent decimals and fractions  numbers with up to 2 decimal places (tenths, hundredths)	continuous data  line graph