

# St Joan of Arc Catholic Primary School

## Maths Curriculum

### YEAR 4



AT A GLANCE	EXAMPLE
<b>Use and apply mathematics</b>	<ul style="list-style-type: none"> <li>• solve one- and two-step problems involving numbers, money or measures, including time; choose and carry out appropriate calculations, using calculator methods where appropriate</li> <li>• solve addition and subtraction two-step problems in context and solve problems involving multiplying and adding</li> <li>• solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>
<b>Counting &amp; Number Relationships</b>	<ul style="list-style-type: none"> <li>• use positive and negative numbers in context; position them on a number line and state inequalities using the symbols <math>&lt;</math> and <math>&gt;</math>, e.g. <math>-3 &gt; -5</math>, <math>-1 &gt; +1</math></li> <li>• use decimal notation for tenths and hundredths, relating the notation to money and measurement; position one- and two-place decimals on a number line</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> <li>• use the vocabulary of ratio and proportion to describe the relationship between two quantities, e.g. 2 to every 3, and between part and whole, e.g. 2 in every 5; estimate proportion, e.g. 'for every 1 red car there are about 4 silver cars', or 'I'm asleep for about <math>\frac{1}{3}</math> of the day'</li> <li>• add and round decimals with one decimal place to the nearest whole number and read Roman numerals to 100</li> <li>• understand the introduction of zero</li> </ul>
<b>Number facts</b>	<ul style="list-style-type: none"> <li>• use knowledge of addition and subtraction facts and place value to derive sums and differences of pairs of multiples of 10, 100 or 1000</li> <li>• derive and recall multiplication facts up to <math>10 \times 10</math>, the corresponding division facts and multiples of numbers to 10 up to the tenth multiple round any number to the nearest 10, 100 or 1000” and “use inverse operations to check answers to a calculation”</li> <li>• identify pairs of fractions that total 1</li> <li>• recognise and show families of common equivalent fractions</li> <li>• recognise/write decimal equivalent to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, &amp; <math>\frac{3}{4}</math>.</li> </ul>
<b>Calculations</b>	<ul style="list-style-type: none"> <li>• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>• multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>• multiply &amp; divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>• recognise and use number factors</li> </ul>



<b>Position and Transformation</b>	<ul style="list-style-type: none"><li>• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li><li>• identify acute and obtuse angles and compare and order angles up to two right angles by size</li></ul>
<b>Measure</b>	<ul style="list-style-type: none"><li>• estimate, compare and calculate different measures, including money, in pounds and pence</li><li>• convert between different units of measure (e.g. kilometre to metre; hour to minute)</li><li>• interpret intervals and divisions on partially numbered scales and record readings accurately, where appropriate to the nearest tenth of a unit</li><li>• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres and find the area of rectilinear shapes by counting squares</li><li>• read, write and convert time between analogue and digital 12 and 24-hour clocks</li><li>• solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</li></ul>
<b>Data Handling</b>	<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></ul>