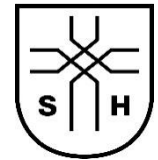




# Sacred Heart Catholic Primary School

## Mathematics Overview – Year 4



	Unit 1 – Place value	Unit 2 – Addition and subtraction	Unit 3 – Measurement	Unit 4 – Multiplication and division	
Autumn Term	<ul style="list-style-type: none"><li>count in multiples of 6, 7, 9, 25 and 1000</li><li>find 1000 more or less than a given number</li><li>count backwards through zero to include negative numbers</li><li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li><li>order and compare numbers beyond 1000</li><li>identify, represent and estimate numbers using different representations</li><li>round any number to the nearest 10, 100 or 1000</li><li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</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></ul>	<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>estimate and use inverse operations to check answers to a calculation</li><li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li></ul>	<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><li>find the area of rectilinear shapes by counting squares</li><li>estimate, compare and calculate different measures, including money in pounds and pence</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>	<ul style="list-style-type: none"><li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></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</li><li>recognise and use factor pairs and commutativity in mental calculations</li><li>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</li></ul>	

Spring term	Unit 1 – Multiplication and division	Unit 2 – Measurement (area)	Unit 3 – Fractions	Unit 4 – Fractions (decimals)	
	<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>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> </ul>	<ul style="list-style-type: none"> <li>Find the area of rectilinear shapes by counting squares</li> </ul>	<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>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>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</li> </ul>	<ul style="list-style-type: none"> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and write decimal equivalents to half, quarter and three quarters.</li> <li>find the effect of dividing a one- or two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li> </ul>	
Summer term	Unit 1 – Fractions (decimals)	Unit 2 – Measurement (money)	Unit 3 - Time	Unit 4 – Statistics	Unit 5 – Shape, position and direction
	<ul style="list-style-type: none"> <li>round decimals with one decimal place to the nearest whole number</li> <li>compare numbers with the same number of decimal places up to two decimal places</li> </ul>	<ul style="list-style-type: none"> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> <li>solve simple measure and money problems involving fractions and decimals to two decimal places</li> </ul>	<ul style="list-style-type: none"> <li>read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>Convert between different units of measure [eg hour to minute]</li> </ul>	<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>	<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> <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> <li>describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>plot specified points and draw sides to complete a given polygon.</li> </ul>

