

## Holy Family Catholic Primary School Y6 Maths Overview

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Number</b> Number and Place Value Addition and Subtraction Multiplication and Division	<b>Fractions</b> Fractions, decimals and percentages	<b>Number</b> Ratio and proportion Algebra  <b>Measurement</b>	<b>Geometry</b> Properties of shapes Position and direction	<b>Statistics</b>	<b>REVISION</b>
<p><i>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</i></p> <p><i>Round any whole number to a required degree of accuracy</i></p> <p><i>Use negative numbers in context, and calculate intervals across zero</i></p> <p><i>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</i></p> <p><i>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</i></p> <p><i>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate interpreting remainders according to the context</i></p> <p><i>Perform mental calculations, including with mixed operations and large numbers</i></p> <p><i>Identify common factors, common multiples and prime numbers</i></p>	<p><i>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</i></p> <p><i>Compare and order fractions, including fractions &gt; 1</i></p> <p><i>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</i></p> <p><i>Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>]</i></p> <p><i>Divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</i></p> <p><i>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</i></p> <p><i>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</i></p> <p><i>Multiply one-digit numbers with up to two decimal places by whole numbers</i></p>	<p><i>Use simple formulae</i></p> <p><i>Generate and describe linear number sequences</i></p> <p><i>Express missing number problems algebraically</i></p> <p><i>Find pairs of numbers that satisfy an equation with two unknowns</i></p> <p><i>Enumerate possibilities of combinations of two variables</i>  <i>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places</i></p> <p><i>Convert between miles and kilometres</i></p> <p><i>Recognise that shapes with the same areas can have different perimeters and vice versa</i></p> <p><i>Recognise when it is possible to use formulae for area and volume of shapes</i></p> <p><i>Calculate the area of parallelograms and triangles</i></p> <p><i>Calculate, estimate and compare volume of cubes and cuboids using standard units, including</i></p>	<p><i>Draw 2-D shapes using given dimensions and angles</i></p> <p><i>Recognise, describe and build simple 3-D shapes, including making nets</i></p> <p><i>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</i></p> <p><i>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</i></p> <p><i>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</i></p> <p><i>Describe positions on the full coordinate grid (all four quadrants)</i></p> <p><i>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</i></p>	<p><i>Interpret and construct pie charts and line graphs and use these to solve problems</i></p> <p><i>Calculate and interpret the mean as an average.</i></p>	

<p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p>	<p>Use written division methods in cases where the answer has up to two decimal places</p> <p><i>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</i></p> <p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>	<p>cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units [for example, mm<sup>3</sup> and km<sup>3</sup>].</p>			
	<p><b>Continuous objectives:</b></p>				
	<p>Solve number and practical problems that involve all of the above (number and place value)</p> <p><i>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</i></p> <p><i>Solve problems involving addition, subtraction, multiplication and division</i></p> <p><i>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</i></p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy</p> <p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p> <p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p>				

	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
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