



Bishop Chadwick
Catholic Education Trust



Mathematics Long Term Plan 2024-25

Year 6

Term	Number and Place Value	Addition and Subtraction	Fractions	Ratio and Proportion	Algebra	Measurement	Shape	Position and Direction	Statistics
Autumn	2 weeks	2 weeks	2 weeks	1 weeks	1 week	1 week	2 weeks	1 week	
Spring	2 weeks	2 weeks	2 weeks	1 week	1 weeks	2 weeks	1 week	1 week	
Summer		1 week	2 weeks	1 week	2 weeks	1 week	1 week		2 weeks

Term	Number and Place Value	Addition and Subtraction Multiplication and Division	Fractions	Ratio and proportion	Alegebra	Measurement	Shape	Position and Direction	Statistics
Autumn	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required	Multiply multi-digit numbers up to 4 digit by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4 digits by a two – digit	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication	Use simple formulae	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets	Describe positions on the full coordinate grid (all four quadrants)	



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	degree of accuracy	<p>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</p> <p>Divide numbers upto four digits by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p>	<p>fractions, including fractions >1</p> <p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p>	<p>and division facts.</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>		<p>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</p> <p>Convert between miles and kilometres</p>			
Spring	Use negative numbers in	Perform mental calculations,	Multiply simple pairs	Solve problems	Generate and describe	Recognise that shapes with the	Compare and classify	Draw and translate simple	



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	<p>context, and calculate intervals across zero</p> <p>Solve number and practical problems that involve all of the above</p>	<p>including with mixed operations and large numbers</p> <p>Identify common factors, common multiples and prime numbers</p>	<p>of proper fractions, writing the answer in its simplest form [for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]</p> <p>Divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$]</p> <p>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example $\frac{3}{8}$]</p>	<p>involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p>	<p>linear number sequences</p> <p>Express missing number problems algebraically</p>	<p>same areas can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the area of parallelograms and triangles</p>	<p>geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p>	<p>shapes on the coordinate plane and reflect them in the axes</p>	
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<p>Summer</p>		<p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division</p> <p>Use estimation to check answers to calculations</p>	<p>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</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>Use written division methods in cases where</p>	<p>Solve problems involving similar shapes where the scale factor is known or can be found</p>	<p>Find pairs of numbers that satisfy an equation with two unknowns</p> <p>Enumerate possibilities of combinations of two variables</p>	<p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^2 and km^3]</p>	<p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p>		<p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Calculate and interpret the mean as an average</p>
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		and determine, in the context of a problem, an appropriate degree of accuracy	the answer has up to two decimal places Solve problems which require answers to be rounded to specific degrees of accuracy Recall and use equivalences between simple fractions, decimals and percentages, including different contexts						
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