

## Durley Primary School Long Term Plan - Mathematics

This long term plan outlines the Key Performance indicators that we will cover each term. Problem solving will also be a focus in each term. Children will solve problems in all 4 operations and money throughout the key stage.

Year Group	Autumn Term	Spring Term	Summer Term
Year 3	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> <li>• Count from 0 in multiples of 4.</li> <li>• Recognise the place value of each digit in a three-digit number (hundreds, tens, ones.)</li> <li>• Add and subtract mentally a three digit number and ones, a three digit number and hundreds.</li> <li>• Interpret and present data using bar charts, pictograms and tables.</li> <li>• Recall and use multiplication and division facts for the 3 and 4 multiplication tables.</li> <li>• Write and calculate mathematical statements for <math>\times</math> and <math>\div</math> using the multiplication tables they know using mental strategies and progressing to formal written methods.</li> <li>• Count up and down in tenths.</li> <li>• Recognise that tenths arise from dividing an object into 10 equal parts.</li> <li>• Recognise, find and write fractions of a discrete set of objects: unit fractions.</li> <li>• Measure and compare lengths, mass, volume/capacity.</li> <li>• Add and subtract amounts of money.</li> <li>• Tell and write the time from an analogue clock.</li> <li>• Identify right angles.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 plus:</p> <ul style="list-style-type: none"> <li>• Count from 0 in multiples of 50 and 100.</li> <li>• Add and subtract mentally a three digit number and tens, a three digit number and hundreds.</li> <li>• Recognise that tenths arise from dividing one-digit numbers or quantities by 10.</li> <li>• Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>• Give change using both £ and p in practical contexts.</li> <li>• Recognise that 2 right angles make a half-turn.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 and 2 plus:</p> <ul style="list-style-type: none"> <li>• Count from 0 in multiples of 8.</li> <li>• Recall and use multiplication and division facts for the 8 multiplication tables.</li> <li>• Write and calculate multiplication and division including for two-digit numbers times one-digit numbers.</li> <li>• Recognise non-unit fractions with small denominators.</li> <li>• Tell the time on a 24 hour clock.</li> <li>• Recognise that three right angles make three quarters of a turn and that four make a complete turn</li> <li>• Identify whether angles are greater than or less than a right angle.</li> </ul>
Year 4	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> <li>• Count in multiples of 25 and 100.</li> <li>• Round any number to the nearest 10,100.</li> <li>• Improve calculation methods in all four operations.</li> <li>• Recognise and show fractions using diagrams</li> <li>• Round decimals with one decimal place to the nearest whole number.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 plus:</p> <ul style="list-style-type: none"> <li>• Count in multiples of 6.</li> <li>• Order and compare numbers beyond 1000.</li> <li>• Round number to the nearest 1000.</li> <li>• Recall 2/3/4/5/6/8 multiplication and division facts for multiplication tables.</li> <li>• Recognise and show families of common equivalent fractions.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 and 2 plus:</p> <ul style="list-style-type: none"> <li>• Count in multiples of 7 and 9.</li> <li>• Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li>• Count up and down in hundredths.</li> <li>• Solve simple measures and money problems involving decimals to two decimal places.</li> </ul>

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	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes, based on their properties and sizes</li> </ul>	<ul style="list-style-type: none"> <li>Recognise that hundredths arise when dividing an object by a hundred and dividing tenths by 10.</li> <li>Round decimals with one decimal place to the nearest whole number.</li> <li>Solve simple measure and money problems involving fractions.</li> <li>Convert between different units of measure (eg kilometer to metre; hour to minute).</li> <li>Compare and classify geometric shapes, including quadrilaterals based on their properties and size.</li> <li>Identify symmetry in 2D shapes presented in different orientations.</li> </ul>	<ul style="list-style-type: none"> <li>Compare and classify triangles</li> <li>Plot specified points and draw sides to complete a given polygon.</li> </ul>
Year 5	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.</li> <li>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>Compare and order fractions whose denominators are all multiples of the same number.</li> <li>Convert between different units of metric measure (eg km &amp; m, cm &amp; m, cm &amp; mm, g &amp; kg, l &amp; ml)</li> <li>Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</li> <li>Calculate and compare the area of rectangles and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.</li> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 plus:</p> <ul style="list-style-type: none"> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero.</li> <li>Add and subtract whole numbers with more than 4 digits, including formal written methods (columnar addition and subtraction)</li> <li>Add and subtract numbers mentally with increasingly large numbers (eg 12,462 - 2300 = 10,612)</li> <li>Read and write decimal numbers as fractions (eg 0.71 = 71/100)</li> <li>Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math>.</li> <li>Draw given angles, and measure them in degrees.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 and 2 plus:</p> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers with up to three decimal places.</li> <li>Solve problems involving number up to 3 decimal places.</li> <li>Solve problems with a denominator of a multiple of 10 or 25.</li> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>
Year 6	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 plus:</p> <ul style="list-style-type: none"> <li>Use negative numbers in context, and calculate</li> </ul>	<p>Pupils will be taught to:</p> <p>Recap on KPIs taught in phase 1 and 2:</p> <p>Revision and testing.</p>

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	<ul style="list-style-type: none"> <li>• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>• Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> <li>• Use simple formulae in algebra.</li> <li>• Multiply multi-digit numbers up to 4 digits by a two digit whole number using the formal method of long multiplication.</li> <li>• Divide numbers up to 4 digits by a two digit whole number using the formal method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</li> <li>• Calculate and interpret the mean as an average.</li> <li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>• 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.</li> <li>• Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</li> </ul>	<p>intervals across zero.</p> <ul style="list-style-type: none"> <li>• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>	
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