

## Long-term maths plan

### Key

- Number
- Measurement
- Geometry
- Statistics
- Revisit and consolidate



Term	Half term 1 Approximately 6 weeks			Half term 2 Approximately 6 weeks		
Autumn	<span style="color: #00A0C0;">●</span> <b>Number and place value</b>	<span style="color: #00A0C0;">●</span> <b>Addition and subtraction</b>	<span style="color: #00A0C0;">●</span> <b>Multiplication and division</b>	<span style="color: #C060C0;">●</span> <b>Geometry:</b> Shape	<span style="color: #FFD700;">●</span> <b>Measurement:</b> Length and perimeter	
Spring	<span style="color: #00A0C0;">●</span> <b>Number and place value</b>	<span style="color: #00A0C0;">●</span> <b>Multiplication and division</b>	<span style="color: #FFD700;">●</span> <b>Measurement:</b> Money, including addition and subtraction	<span style="color: #00A0C0;">●</span> <b>Fractions</b>	<span style="color: #FFD700;">●</span> <b>Measurement:</b> Time	
Summer	<span style="color: #00A0C0;">●</span> <b>Fractions</b>	<span style="color: #C060C0;">●</span> <b>Geometry:</b> Shape	<span style="color: #FFD700;">●</span> <b>Measurement:</b> Mass, capacity and volume	<span style="color: #00A0C0;">●</span> <b>Number:</b> The four operations and arithmetic	<span style="color: #FFA07A;">●</span> <b>Statistics</b>	<span style="color: #808080;">●</span> <b>Revisit and consolidate</b>

## Medium-term maths plan Autumn term coverage

Half term 1		Half term 2		
3–4 weeks	3–4 weeks	2–3 weeks	2–3 weeks	2–3 weeks
<p><b>● Number and place value</b></p> <p>Count from 0 in multiples of 10, 50 and 100.</p> <p>Find 10 or 100 more or less than a given number.</p> <p>Compare and order numbers up to 200.</p> <p>Read and write numbers up to 200 in numerals and words.</p> <p>Recognise the place value of each digit in a three-digit number with numbers up to 200 (hundreds, tens and ones).</p> <p>Identify, represent and estimate numbers to 200 using different representations.</p> <p>Solve number problems and practical problems that involve all of the above.</p>	<p><b>● Addition and subtraction</b></p> <p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>- a three-digit number and ones</li> <li>- a three-digit number and tens</li> <li>- a three-digit number and hundreds.</li> </ul> <p>Begin to add numbers with two and three digits, using the formal written methods of columnar addition, progressing gradually from concrete and pictorial representation to abstract representation.</p> <p>Estimate the answer to a calculation and use inverse operations to check answers.</p> <p>Solve simple problems, including missing number problems, using number facts and place value with numbers up to and including 200.</p>	<p><b>● Multiplication and division</b></p> <p>Recall and use multiplication and division facts for the 2, 3, 5 and 10 multiplication tables.</p> <p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know (2, 3, 5 and 10).</p> <p>Multiply one-digit numbers by 2, 3, 5 and 10, using mental strategies.</p> <p>Progress to formal written methods to multiply two-digit numbers by a one-digit number (multiplying by 2, 3 and 5).</p> <p>Recognise the inverse relationship between multiplication and division when performing calculations to check answers and written methods (when multiplying by 2, 3, 5 and 10).</p>	<p><b>● Geometry: Shape</b></p> <p>Recognise and name symmetrical and non-symmetrical polygons.</p> <p>Continue to identify, name and describe 3-D shapes, including: cones, cylinders, prisms, pyramids, cubes, cuboids, spheres.</p> <p>Continue to compare, sort and describe common 2-D and 3-D shapes and everyday objects by the number of sides/faces, edges, vertices and lines of symmetry (e.g. using a Venn or Carroll diagram).</p> <p>Recognise angles as a property of shapes.</p> <p>Identify right angles.</p> <p>Identify horizontal and vertical lines.</p>	<p><b>● Measurement: Length and perimeter</b></p> <p>Measure, compare, add and subtract lengths (m/cm/mm).</p> <p>Measure the perimeter of simple 2-D shapes.</p>

## Medium-term maths plan Spring term coverage

Half term 1		Half term 2		
2–3 weeks	3–4 weeks	2–3 weeks	3–4 weeks	2–3 weeks
<p><b>● Number and place value</b></p>	<p><b>● Multiplication and division</b></p>	<p><b>● Measurement:</b> Money, including addition and subtraction</p>	<p><b>● Fractions</b></p>	<p><b>● Measurement:</b> Time</p>
<p>Count from 0 in multiples of 4, 8, 50 and 100.</p> <p>Find 10 or 100 more or less than a given number.</p> <p>Compare and order numbers up to 1000.</p> <p>Read and write numbers up to 1000 in numerals and words.</p> <p>Recognise the place value of each digit in a three-digit number (hundreds, tens and ones).</p> <p>Identify, represent and estimate numbers to 1000 using different representations.</p> <p>Solve number problems and practical problems involving these ideas.</p>	<p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental strategies.</p> <p>Use the multiplication tables that they know, including for two-digit numbers times one-digit numbers, progressing to formal written methods.</p> <p>Recognise the inverse relationship between multiplication and division when performing calculations to check answers and written methods.</p> <p>Multiply numbers to 100 by 10 and understand the effect on the place value of the number being multiplied.</p> <p>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</p>	<p>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</p> <p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>- a three-digit number and ones</li> <li>- a three-digit number and tens</li> <li>- a three-digit number and hundreds.</li> </ul> <p>Add and subtract numbers with up to three digits, using the formal written methods of columnar addition and subtraction.</p> <p>Estimate the answer to a calculation and use inverse operations to check answers.</p> <p>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>Recognise and show, using diagrams, equivalent fractions with small denominators (including: halves, quarters, thirds, sixths, fifths and tenths).</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (including: halves, quarters, thirds, sixths, fifths and tenths).</p> <p>Compare and order unit fractions and fractions with the same denominator and plot them on segmented number lines.</p> <p>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (including: halves, quarters, thirds, sixths, fifths and tenths).</p> <p>Solve simple problems that involve all of the above.</p>	<p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</p> <p>Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year.</p> <p>Compare durations of events (e.g. to calculate the time taken by particular events or tasks).</p>

## Medium-term maths plan Summer term coverage

Half term 1		Half term 2			
3–4 weeks	2–3 weeks	2–3 weeks	3–4 weeks	2–3 weeks	1–2 weeks
<p><b>Fractions</b></p> <p>Recognise and show, using diagrams, equivalent fractions with small denominators.</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</p> <p>Compare and order unit fractions with the same denominators.</p> <p>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</p> <p>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</p> <p>Add and subtract fractions with the same denominator within one whole (e.g. <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math> and <math>\frac{1}{3} + \frac{2}{3}</math> make a whole).</p> <p>Solve problems that involve all of the above.</p>	<p><b>Geometry:</b> Shape</p> <p>Recognise angles as a property of shape or a description of a turn.</p> <p>Identify right angles, recognise that two right angles make a half-turn, three make three-quarters of a turn and four a complete turn.</p> <p>Identify whether angles are greater than or less than a right angle.</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p> <p>Draw 2-D shapes accurately and connect decimals and rounding to drawing and measuring straight lines in centimetres in a variety of contexts (e.g. rounding mm on a ruler to the nearest cm).</p> <p>Make 3-D shapes using modelling materials and name and describe the properties using accurate language when describing the angles, edges, vertices and measurements.</p> <p>Recognise 3-D shapes in different orientations and describe them.</p>	<p><b>Measurement:</b> Mass, capacity and volume</p> <p>Measure, compare, add and subtract volume/capacity (l/ml).</p> <p>Measure, compare, add and subtract mass (kg/g).</p>	<p><b>Number:</b> The four operations and arithmetic</p> <p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>- a three-digit number and ones</li> <li>- a three-digit number and tens</li> <li>- a three-digit number and hundreds.</li> </ul> <p>Add and subtract numbers with up to three digits, using the formal written methods of columnar addition and subtraction.</p> <p>Estimate the answer to a calculation and use inverse operations to check answers.</p> <p>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p> <p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p> <p>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</p>	<p><b>Statistics</b></p> <p>Interpret and present data using bar charts, pictograms and tables.</p> <p>Solve one-step and two-step questions (e.g. ‘How many more?’ and ‘How many fewer?’) using information presented in scaled bar charts and pictograms and tables.</p>	<p><b>Revisit and consolidate</b></p>