

Year 2 Maths Curriculum

Week	Term 1	Term 2	Term 3
1	<p>Number and place value</p> <p>Count in steps of 2 and 5 from 0. Count in tens from any number, forward or backward <i>Using materials and a range of representations, pupils practise counting, reading, writing and comparing numbers to at least 100 and solving a variety of related problems to develop fluency</i></p> <p>Recognise the place value of each digit in a two-digit number (tens, ones) <i>Pupils should partition numbers in different ways (e.g. $23 = 20 + 3$ and $23 = 10 + 13$) to support subtraction. They begin to understand zero as a place holder.</i></p> <p>Identify, represent and estimate numbers using different representations, including the number line</p> <p>Read and write numbers to at least 100 in numerals and in words</p>	<p>Number and place value</p> <p>Count in steps of 2, 3, and 5 from 0. Count in tens from any number, forward or backward Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs <i>Using materials and a range of representations, pupils practise counting, reading, writing and comparing numbers to at least 100 and solving a variety of related problems to develop fluency</i></p> <p><i>They count in multiples of three to support their later understanding of a third.</i></p> <p>Read and write numbers to at least 100 in numerals and in words <i>As they become more confident with numbers up to 100, pupils are introduced to larger numbers to develop further their recognition of patterns within the number system and represent them in different ways, including spatial representations.</i></p>	<p>Number and place value</p> <p>Use place value and number facts to solve problems <i>They become fluent and apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two-digit numbers.</i></p>
2	<p>Measurement – length/height</p> <p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit using rulers.</p> <p>Compare and order lengths and record the results using $>$, $<$ and $=$ <i>Pupils use standard units of measurement with increasing accuracy, using their knowledge of the number system. They use the appropriate language and record using standard abbreviations.</i></p>	<p>Measurement - capacity</p> <p>Choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels.</p> <p>Compare and order volume/ capacity and record the results using $>$, $<$ and $=$ <i>Pupils use standard units of measurement with increasing accuracy, using their knowledge of the number system. They use the appropriate language and record using standard abbreviations.</i></p>	<p>Measurement – mass/weight</p> <p>Choose and use appropriate standard units to estimate and measure mass (kg/g); to the nearest appropriate unit, using scales.</p> <p>Compare and order mass and record the results using $>$, $<$ and $=$ <i>Pupils use standard units of measurement with increasing accuracy, using their knowledge of the number system. They use the appropriate language and record using standard abbreviations.</i></p>

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3	<p>Addition</p> <p>Recall and use addition facts to 20 fluently, and derive and use related facts up to 100 <i>Pupils extend their understanding of the language of addition to include sum.</i> <i>Pupils practise to 20 to become increasingly fluent in deriving facts such as using $3 + 7 = 10$, to calculate $30 + 70 = 100$.</i></p> <p>Show that addition of two numbers can be done in any order (commutative) <i>They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (e.g. $5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5$). This establishes commutativity and associativity of addition.</i></p> <p>Add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens</p> <p><i>Recording addition in columns supports place value and prepares for formal written methods with larger numbers.</i></p>	<p>Addition</p> <p>Recall and use addition facts to 20 fluently, and derive and use related facts up to 100 <i>Pupils extend their understanding of the language of addition to include sum.</i> <i>Pupils practise to 20 to become increasingly fluent in deriving facts such as using $3 + 7 = 10$, to calculate $30 + 70 = 100$.</i></p> <p>Add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens two two-digit numbers <i>Recording addition in columns supports place value and prepares for formal written methods with larger numbers.</i></p>	<p>Addition</p> <p>Show that addition of two numbers can be done in any order (commutative) <i>They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (e.g. $5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5$). This establishes commutativity and associativity of addition.</i></p> <p>Add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers <i>Recording addition in columns supports place value and prepares for formal written methods with larger numbers.</i></p>
4	<p>Addition</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p>Solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures (focusing on length/height) and applying their increasing knowledge of mental and written methods</p>	<p>Addition</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p>Solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures (focusing on capacity) and applying their increasing knowledge of mental and written methods</p>	<p>Addition</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p>Solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures (focusing on mass/weight) and applying their increasing knowledge of mental and written methods</p>

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5	<p>Subtraction</p> <p>Recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100 <i>Pupils extend their understanding of the language subtraction to include difference.</i> <i>Pupils practise subtraction to 20 to become increasingly fluent in deriving facts such as using $10 - 7 = 3$ and $7 = 10 - 3$ to calculate $100 - 70 = 30$ and $70 = 100 - 30$.</i></p> <p>Show that subtraction of one number from another cannot be done in any order.</p> <p>Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones <i>Recording subtraction in columns supports place value and prepares for formal written methods with larger numbers.</i></p>	<p>Subtraction</p> <p>Recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100 <i>Pupils extend their understanding of the language subtraction to include difference.</i> <i>Pupils practise subtraction to 20 to become increasingly fluent in deriving facts such as using $10 - 7 = 3$ and $7 = 10 - 3$ to calculate $100 - 70 = 30$ and $70 = 100 - 30$.</i></p> <p>Show that subtraction of one number from another cannot be done in any order.</p> <p>Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and 10s <i>Recording subtraction in columns supports place value and prepares for formal written methods with larger numbers.</i></p>	<p>Subtraction</p> <p>Recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100 <i>Pupils extend their understanding of the language subtraction to include difference.</i> <i>Pupils practise subtraction to 20 to become increasingly fluent in deriving facts such as using $10 - 7 = 3$ and $7 = 10 - 3$ to calculate $100 - 70 = 30$ and $70 = 100 - 30$.</i></p> <p>Show that subtraction of one number from another cannot be done in any order.</p> <p>Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and 10s 2 two-digit numbers <i>Recording subtraction in columns supports place value and prepares for formal written methods with larger numbers.</i></p>
6	<p>Measurement – money</p> <p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>Find different combinations of coins that equal the same amounts of money <i>Pupils become fluent in counting and recognising coins. They read and say amounts of money confidently and use the symbols £ and p accurately, recording pounds and pence separately.</i></p>	<p>Measurement – money</p> <p>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>Find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p> <p><i>Pupils become fluent in counting and recognising coins. They read and say amounts of money confidently and use the symbols £ and p accurately, recording pounds and pence separately.</i></p>	<p>Measurement - time</p> <p>Compare and sequence intervals of time Know the number of minutes in an hour and the number of hours in a day Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</p> <p><i>Pupils become fluent in telling the time on analogue clocks and recording it.</i></p>

<p>7</p>	<p>Measurement – time</p> <p>Compare and sequence intervals of time Know the number of minutes in an hour and the number of hours in a day Tell and write the time including quarter past/to the hour and draw the hands on a clock face to show these times <i>Pupils become fluent in telling the time on analogue clocks and recording it.</i></p>	<p>Geometry - Position and direction</p> <p>Focus on shape Order and arrange combinations of mathematical objects in patterns and sequences <i>Pupils should work with patterns of shapes, including those in different orientations</i></p>	<p>Geometry - Position and direction</p> <p>Focus on number Order and arrange combinations of mathematical objects in patterns and sequences <i>Pupils should work with patterns of shapes, including those in different orientations</i></p>
<p>8</p>	<p>Multiplication</p> <p>Recall and use multiplication and division facts for the 2 x multiplication tables, including recognising odd and even numbers <i>Pupils are introduced to the multiplication tables. They practise to become fluent in the 2 X multiplication tables and connect them to each other.</i></p> <p>Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (×) and equals (=) signs <i>They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.</i></p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p>	<p>Multiplication</p> <p>Recall and use multiplication and division facts for the 2 and 10 multiplication tables, including recognising odd and even numbers <i>Pupils are introduced to the multiplication tables. They practise to become fluent in the 2 and 10 multiplication tables and connect them to each other. They connect the 10 multiplication table to place value.</i></p> <p>Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (×) and equals (=) signs <i>They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.</i></p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p>	<p>Multiplication</p> <p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <i>Pupils are introduced to the multiplication tables. They practise to become fluent in the 2, 5 and 10 multiplication tables and connect them to each other. They connect the 10 multiplication table to place value, and the 5 multiplication table to the divisions on the clock face. They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.</i></p> <p>Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (×) and equals (=) signs <i>They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.</i></p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p>

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9	<p>Division</p> <p>Recall and use multiplication and division facts for the 2 x multiplication tables, including recognising odd and even numbers</p> <p>Calculate mathematical statements for division within the multiplication tables and write them using the division (\div) and equals (=) signs</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p><i>Pupils work with a range of materials and contexts in which division relates to grouping and sharing discrete and continuous quantities and to arrays. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>	<p>Division</p> <p>Recall and use multiplication and division facts for the 2 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Calculate mathematical statements for division within the multiplication tables and write them using the division (\div) and equals (=) signs</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p><i>Pupils work with a range of materials and contexts in which division relates to grouping and sharing discrete and continuous quantities and to arrays. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>	<p>Division</p> <p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Calculate mathematical statements for division within the multiplication tables and write them using the division (\div) and equals (=) signs</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p> <p><i>Pupils work with a range of materials and contexts in which division relates to grouping and sharing discrete and continuous quantities and to arrays. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>
10	<p>Multiplication & Division</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p><i>Pupils work with a range of materials and contexts in which multiplication and division relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>	<p>Multiplication & Division</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p><i>Pupils work with a range of materials and contexts in which multiplication and division relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>	<p>Multiplication & Division</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p><i>Pupils work with a range of materials and contexts in which multiplication and division relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and measures (for example, $40 \div 2 = 20$, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, $4 \times 5 = 20$ and $20 \div 5 = 4$).</i></p>

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11	<p>Fractions</p> <p>Recognise, find, name and write fractions , $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$, and of a length, shape, set of objects or quantity</p> <p>Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p> <p><i>Pupils use fractions as ‘fractions of discrete and continuous quantities by solving problems using shapes, objects and quantities. They connect unit fractions to equal sharing and grouping, to numbers when they can be calculated, and to measures, finding fractions of lengths, quantities, sets of objects or shapes. They meet $\frac{3}{4}$ as the first example of a non-unit fraction.</i></p> <p><i>Pupils should count in fractions up to 10, starting from any number and using the $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on the number line (for example, $1\frac{1}{4}$, $1\frac{2}{4}$, (or $1\frac{1}{2}$) $1\frac{3}{4}$, 2) This reinforces the concept of fractions as numbers and that they can add up to more than one.</i></p>	<p>Geometry - Position and direction</p> <p>Pupils should be taught to: use mathematical vocabulary to describe position, direction and movement including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line.</p> <p><i>Pupils use the concept and language of angles to describe ‘turn’ by applying rotations, including in practical contexts (for example, pupils themselves moving in turns, giving instructions to other pupils to do so, and programming robots using instructions given in right angles).</i></p>	<p>Fractions</p> <p>Recognise, find, name and write fractions , $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$, $\frac{1}{3}$ and of a length, shape, set of objects or quantity</p> <p>Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p> <p><i>Pupils use fractions as ‘fractions of discrete and continuous quantities by solving problems using shapes, objects and quantities. They connect unit fractions to equal sharing and grouping, to numbers when they can be calculated, and to measures, finding fractions of lengths, quantities, sets of objects or shapes. They meet $\frac{3}{4}$ as the first example of a non-unit fraction.</i></p> <p><i>Pupils should count in fractions up to 10, starting from any number and using the $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on the number line (for example, $1\frac{1}{4}$, $1\frac{2}{4}$, (or $1\frac{1}{2}$) $1\frac{3}{4}$, 2) This reinforces the concept of fractions as numbers and that they can add up to more than one.</i></p>
12	<p>Geometry – Shape</p> <p>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p> <p>Compare and sort common 2-D and 3-D shapes and everyday objects.</p> <p><i>Pupils handle and name a wide variety of common 2-D shapes including: quadrilaterals and polygons, and identify the properties of each shape (for example, number of sides, number of faces). Pupils identify, compare and sort shapes on the basis of their properties and use vocabulary precisely, such as sides, edges. Pupils read and write names for</i></p>	<p>Statistics Link to Science week</p> <p>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</p> <p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>Ask and answer questions about totalling and comparing categorical data.</p> <p><i>Pupils record, interpret, collate, organise and compare information (for example, using many-to-one correspondence in pictograms with simple ratios 2, 5, 10).</i></p>	<p>Geometry – Shape</p> <p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p> <p>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>Compare and sort common 2-D and 3-D shapes and everyday objects.</p> <p><i>Pupils handle and name a wide variety of common 2-D and 3-D shapes including: quadrilaterals and polygons, and cuboids, prisms and cones, and identify the properties of each shape (for example, number of sides, number of faces). Pupils identify, compare</i></p>

	<p><i>shapes that are appropriate for their word reading and spelling. Pupils draw lines and shapes using a straight edge.</i></p>		<p><i>and sort shapes on the basis of their properties and use vocabulary precisely, such as sides, edges, vertices and faces. Pupils read and write names for shapes that are appropriate for their word reading and spelling. Pupils draw lines and shapes using a straight edge.</i></p>
13	Assessment/Catch up week	Assessment/Catch up week	Assessment/Catch up week