

Subject Progression

Mathematics – Year 2

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|---|--|--|--|--|
| Doubles and halves | Doubles and halves | Doubles and halves | Doubles and halves | Doubles and halves | Doubles and halves |
| Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s | Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s | Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s | Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s | Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s | Counting and multiplication facts in 2s, 3s, 4s, 5s, 10s |
| Recall and use + and – facts to 20/100 | Recall and use + and – facts to 20/100 | Recall and use + and – facts to 20/100 | Recall and use + and – facts to 20/100 | Recall and use + and – facts to 20/100 | Recall and use + and – facts to 20/100 |
| Compare and order numbers to 100 | Compare and order numbers to 100 | Compare and order numbers to 100 | Compare and order numbers to 100 | Compare and order numbers to 100 | Compare and order numbers to 100 |
| <i>Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.</i> | <i>Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.</i> | <i>Secure fluency in addition and subtraction facts within 10, through continued practice.</i> | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i> | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i> | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i> |
| <i>Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and nonstandard partitioning</i> | <i>Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and nonstandard partitioning</i> | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i> | <i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i> | <i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i> | <i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i> |
| <i>Secure fluency in addition and subtraction facts within 10, through continued practice.</i> | <i>Secure fluency in addition and subtraction facts within 10, through continued practice.</i> | <i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i> | <i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i> | <i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i> | <i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i> |
| <i>Add and subtract across 10.</i> | <i>Add and subtract across 10.</i> | <i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> |
| | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> | <i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i> |
| | <i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i> | | | | |
| | <i>Recognise the subtraction structure of ‘difference’ and</i> | | | | |
| | | Written addition and subtraction | Written addition and subtraction | Written addition and subtraction | Written addition and subtraction |

| | <p><i>answer questions of the form, "How many more...?"</i></p> <p>Written addition and subtraction</p> | <p>Written multiplication and division</p> | <p>Written multiplication and division</p> <p>Fractions of quantity</p> | <p>Written multiplication and division</p> <p>Fractions of quantity</p> | <p>Written multiplication and division</p> <p>Fractions of quantity</p> |
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| <p>Place Value (3 weeks)</p> <p>To count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward</p> <p><i>Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.</i></p> <p><i>Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and nonstandard partitioning</i></p> <p>To compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>To read and write numbers to at least 100 in numerals and in words</p> <p>To identify, represent and estimate numbers using different representations, including the number line</p> <p>Addition and Subtraction, (2 weeks)</p> <p><i>Secure fluency in addition and subtraction facts within 10, through continued practice.</i></p> <p><i>Add and subtract across 10.</i></p> <p>To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p> <p><i>Add and subtract within 100 by applying related one-digit addition</i></p> | <p>Multiplication and Division (2 weeks)</p> <p><i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i></p> <p>To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p><i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i></p> <p>To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p>Shape (3 weeks – 1 week 2D, 1 week 3D, 1 week fraction of shape)</p> <p><i>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</i></p> <p>To identify 2-D shapes on the surface of 3-D shapes</p> | <p>Multiplication and Division (2 weeks)</p> <p><i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i></p> <p>To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p><i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i></p> <p>To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p>Fraction of number (2 weeks)</p> <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity</p> <p>Time (2 weeks)</p> <p>To compare and sequence intervals of time</p> | <p>Addition and Subtraction (2 Weeks)</p> <p>To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p> <p><i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number</i></p> <p><i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i></p> <p>To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p><i>Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?"</i></p> <p>Measures (3 Weeks)</p> <p>To choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p> <p>To compare and order lengths, mass, volume/capacity and record the results using >, < and =</p> | <p>Place Value (1 week)</p> <p><i>Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and nonstandard partitioning</i></p> <p>To compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>To identify, represent and estimate numbers using different representations, including the number line</p> <p>Calculations (2 weeks)</p> <p><i>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i></p> <p><i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</i></p> <p>To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs</p> <p>To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity</p> | <p>Multiplication and Division (2 weeks)</p> <p><i>Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).</i></p> <p>To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p> <p>Fractions (2 weeks)</p> <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity</p> <p>To 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>Time (2 weeks)</p> <p>To compare and sequence intervals of time</p> <p>To 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>To know the number of minutes in an hour and the number of hours in a day</p> |

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| <p>and subtraction facts: add and subtract only ones or only tens to/from a two-digit number</p> <p>Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</p> <p>To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p> <p>Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?"</p> <p>Money (2 weeks – 1 week recognition and 1 week Calculations)</p> <p>To recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>To find different combinations of coins that equal the same amounts of money</p> <p>To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p> | <p>To compare and sort common 2-D and 3-D shapes and everyday objects.</p> <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a shape</p> <p>Statistics (1 week)</p> <p>To interpret and construct simple pictograms, tally charts, block diagrams and tables</p> <p>To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>To ask and answer questions about totalling and comparing categorical data.</p> | <p>To 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>To know the number of minutes in an hour and the number of hours in a day</p> | <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length</p> <p>Position and Direction (1 Week)</p> <p>To order and arrange combinations of mathematical objects in patterns and sequences</p> <p>To use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).</p> | <p>Money including Calculations (1 week)</p> <p>To recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p> <p>To find different combinations of coins that equal the same amounts of money</p> <p>To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p> <p>Shape (2 weeks)</p> <p>Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties</p> <p>To identify 2-D shapes on the surface of 3-D shapes</p> <p>To compare and sort common 2-D and 3-D shapes and everyday objects.</p> | |
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RTPC Key Concept Focus Ongoing Fluency Focus Calculation Focus