

<p>Reasoning about the Number System</p> <p>Counting</p> <ul style="list-style-type: none"> Count from 0 in multiples of 4 Count from 0 in multiples of 8 Count from 0 in multiples of 50 Count from 0 in multiples of 100 Find 10 more or less than a given number Find 100 more or less than a given number 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>Recognising place value</p> <ul style="list-style-type: none"> Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals Read and write numbers up to 1000 in words <p>Comparing</p> <ul style="list-style-type: none"> Compare and order numbers up to 1000 Compare lengths (m/cm/mm, mass (kg/g) volume/capacity (l/ml) Compare durations of events [for example to calculate the time taken by particular events or tasks]. Compare and order unit fractions, and fractions with the same denominators Solve number problems and practical problems involving these ideas. 	<p>Reasoning about Addition and Subtraction</p> <p>Mental Calculations</p> <p>Add numbers mentally, including:</p> <ul style="list-style-type: none"> A three-digit number and ones A three-digit number and tens A three-digit number and hundreds <p>Subtract numbers mentally, including:</p> <ul style="list-style-type: none"> A three-digit number and ones A three-digit number and tens A three-digit number and hundreds <p>Formal Written Methods</p> <ul style="list-style-type: none"> Add numbers with up to three digits, using formal written methods of columnar addition. Subtract numbers with up to three digits, using formal written methods of columnar subtraction Estimate the answer to a calculation and use inverse operations to check answers Add: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Add amounts of money using both £ and p in practical contexts. Subtract amounts of money to give change, using both £ and p in practical contexts. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <p>Statistics</p> <ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables Solve one-step questions involving addition and subtraction [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. Solve two-step questions involving addition and subtraction using information presented in scaled bar charts and pictograms and tables. 	<p>Reasoning about Multiplication and Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3 times table. Recall and use multiplication and division facts for the 4 times table. Recall and use multiplication and division facts for the 8 times table. Know the number of seconds in a minute and the number of days in each month, year and leap year (Link to 60x, 12x, 7x tables, x6) Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers divided by one-digit numbers, using mental and progressing to formal written methods. 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>Reasoning about Fractions</p> <ul style="list-style-type: none"> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators Add fractions with the same denominator within one whole (EG., $5/7 + 1/7 = 6/7$) Subtract fractions with the same denominator. solve problems that involve all of the above. 	<p>Reasoning about Measures</p> <p>Measure:</p> <ul style="list-style-type: none"> Lengths (m/cm/mm) Mass (kg/g) Volume/capacity (l/ml) Measure the perimeter of simple 2-D shapes Tell and write the time from an analogue clock Tell the time using Roman numerals from I to XII. Tell the time using 12-hour and 24 hour clocks 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>Reasoning about Geometry – properties of shape</p> <ul style="list-style-type: none"> Draw and name 2-D shapes recognising their properties Make 3-D shapes using modelling materials recognising their properties Recognise 3-D shapes in different orientations and describe them. Recognise angles as a property of shape Recognise angles as a description of a turn Identify right angles Recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn Identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.