



Year 3 Programme of study for Mathematics

20 Key Objectives are underlined

| Number & Place Value | Addition & Subtraction | Multiplication & Division | Fractions | Measurement | Geometry: Properties of Shapes |
|---|---|--|---|--|--|
| <ul style="list-style-type: none"> ❖ Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. ❖ Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). ❖ Compare and order numbers up to 1000. ❖ Identify, represent and estimate numbers using different representations. ❖ Read and write numbers up to 1000 in numerals and in words. ❖ <u>Solve number problems and practical problems involving these ideas.</u> | <p><i>Add and subtract numbers mentally, including:</i></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>❖ Add and subtract numbers with up to three digits, using 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><i>Recall and use multiplication and division facts for the multiplication tables:</i></p> <ul style="list-style-type: none"> ❖ 3; ❖ 4; ❖ 8. <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> | <ul style="list-style-type: none"> ❖ 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. ❖ 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 (numerator of 1) and non-unit fractions with small denominators. ❖ Recognise and show, using diagrams, equivalent fractions with small denominators. ❖ Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]. ❖ Compare and order unit fractions, and fractions with the same denominators. ❖ Solve problems that involve all of the above. | <p><i>Measure, compare, add and subtract:</i></p> <ul style="list-style-type: none"> ❖ lengths (m/cm/mm); ❖ mass (kg/g); ❖ volume/capacity (l/ml). <p>❖ Measure the perimeter of simple 2-D shapes.</p> <p>❖ <u>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</u></p> <p><i>Tell and write the time from:</i></p> <ul style="list-style-type: none"> ❖ an analogue clock and 12-hour and 24-hour clocks; ❖ an analogue clock, including using Roman numerals from I to XII. <p>❖ Estimate and read time with increasing accuracy to the nearest minute.</p> <p>❖ Record and compare time in terms of seconds, minutes and hours</p> <p>❖ 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 [for example to calculate the time taken by particular events or tasks].</p> | <ul style="list-style-type: none"> ❖ Draw 2-D shapes and make 3-D shapes using modelling materials. ❖ Recognise 3-D shapes in different orientations and describe them. ❖ Recognise angles as a property of shape or 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. |
| | | | | | Statistics |
| | | | | | <ul style="list-style-type: none"> ❖ <u>Interpret and present data using bar charts, pictograms and tables.</u> ❖ Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. |