

| Year 5 Maths   |  |  |   |
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| Year 5 Number & Place Value  |  |  |   |
| Number and Place   | Addition and Subtraction   | Multiplication and Division  | Fractions   |
| <p><b>Sufficient evidence shows the ability to:</b><br/>           Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.<br/>           Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.<br/>           Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.<br/>           Solve number problems and practical problems that involve all of the above.<br/>           Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).<br/>           Add and subtract numbers mentally with increasingly large numbers.<br/>           Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.<br/>           Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.<br/>           Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers.<br/>           Establish whether a number up to 100 is prime &amp; recall prime numbers up to 19.<br/>           Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.<br/>           Multiply and divide numbers mentally drawing upon known facts.<br/>           Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context<br/>           Multiply and divide whole numbers and those involving decimals by 10, 100 &amp; 1000.<br/>           Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).<br/>           Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.<br/>           Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.<br/>           Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Compare and order fractions whose denominators are all multiples of the same number.<br/>           Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.<br/>           Recognise mixed numbers and improper fractions and convert from one form to the other &amp; write mathematical statements <math>&gt; 1</math> as a mixed number [<math>2/5 + 4/5 = 6/5 = 1 \frac{1}{5}</math>].<br/>           Add and subtract fractions with the same denominator and denominators that are multiples of the same number.<br/>           Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.<br/>           Read and write decimal numbers as fractions [for example, <math>0.71 = 71/100</math>].<br/>           Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.<br/>           Round decimals with two decimal places to the nearest whole number and to one decimal place.<br/>           Read, write, order &amp; compare numbers with up to three decimal places.<br/>           Solve problems involving number up to three decimal places.<br/>           Recognise the percent symbol (%) and understand that percent relates to 'number of parts per hundred', write percentages as a fraction with denominator 100, &amp; as a decimal.<br/>           Solve problems which require knowing percent &amp; decimal equivalents of <math>1/2</math>, <math>1/4</math>, <math>1/5</math>, <math>2/5</math>, <math>4/5</math> and those fractions with a denominator of a multiple of 10 or 25.</p> |

| Year 5 Geometry and Measures  |   |   |  |
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| Measures  | Geometry – Properties of Shapes   | Geometry – Position and Movement  | Statistics   |
| <p><b>Sufficient evidence shows the ability to:</b><br/>           Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre &amp; millilitre).<br/>           Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.<br/>           Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.<br/>           Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.<br/>           Estimate volume [for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water].<br/>           Solve problems involving converting between units of time.<br/>           Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.<br/>           Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.<br/>           Draw given angles, and measure them in degrees (°).<br/>           Identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line &amp; 1/2 a turn (total 180°) and other multiples of 90°.<br/>           Use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</p> | <p><b>Sufficient evidence shows the ability to:</b><br/>           Solve comparison, sum and difference problems using information presented in a line graph.<br/>           Complete, read and interpret information in tables, including timetables.</p> |