

Year 6 Progression in Maths

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Unit 12	Unit 13	Unit 14	Unit 15
<p>I will know how to read, write and understand the place value of numbers up to 10 million</p> <p>I will know how to multiply whole numbers by 10, 100 and 1000</p> <p>I will know how to divide whole numbers by 10, 100 and 1000 (where the answer is a whole number)</p> <p>I will know how to read, write and understand the place value of numbers with up to 3</p>	<p>I will know how to continue and describe a pattern representing a sequence</p> <p>I will know how to continue and describe rule for a linear number sequence</p> <p>I will know how to generate a linear sequence from a simple rule</p> <p>I will know how to find missing terms in a sequence</p> <p>I will know how to define and find factors of a number</p>	<p>I will know how to calculate mentally using four operations</p> <p>I will know how to add positive integers using a formal method</p> <p>I will know how to add positive decimals using a formal method</p> <p>I will know how to subtract positive integers using a formal method</p> <p>I will know how to subtract</p>	<p>I will know how to use a known multiplication /division fact to find other related facts</p> <p>I will know how to carry out multiplication and division mentally (with jottings)</p> <p>I will know how to carry out complex mental calculations using all four operations</p> <p>I will know how to divide a 3/4-digit number by a 1-digit number using a written method</p> <p>I will know how to divide</p>	<p>I will know how to recognise and name parts of a circle</p> <p>I will know how to recognise and describe special types of triangle</p> <p>I will know how to recognise and describe special types of quadrilateral</p> <p>I will know how to classify 2D shapes using a given category/criterion</p> <p>I will know how to find a missing angle around a point</p>	<p>I will know how to find the perimeter of a shape</p> <p>I will know how to find the area of a rectangle</p> <p>I will know how to suggest rectangles with a given area or perimeter</p> <p>I will know how to find the area of a parallelogram</p> <p>I will know how to Find the area of a triangle</p> <p>I will know how to solve problems involving area</p>	<p>I will know how to simplify a fraction</p> <p>I will know how to find equivalent fractions</p> <p>I will know how to compare and order fractions</p> <p>I will know how to represent divisions using fractions</p> <p>I will know how to convert fractions to decimals</p> <p>I will know how to convert decimals to fractions</p> <p>I will know how to use fraction,</p>	<p>I will know how convert between mixed numbers and proper fractions</p> <p>I will know how to add fractions with the same denominator and denominator s that are multiples of the same number</p> <p>I will know how to add two proper fractions with different denominators</p> <p>I will know how to subtract two proper fractions</p> <p>I will know how to add</p>	<p>I will know how to multiply and divide a whole number by a 1 or 2 digit number</p> <p>I will know how to round a number to a given degree of accuracy</p> <p>I will know how solve problems involving 4 operations and some element of rounding</p> <p>I will know how to write missing number problems algebraically and solve them informally</p>	<p>I will know how to interpret pie charts</p> <p>I will know how to interpret a line graph</p> <p>I will know how to calculate the mean of a data set.</p> <p>I will know how to construct rectangles accurately</p> <p>I will know how to construct triangles accurately</p> <p>I will know how to construct other quadrilaterals accurately</p> <p>I will know how to name and describe the</p>	<p>I will know how to use a protractor to draw angles accurately.</p> <p>I will know how to use a ruler to draw lines to the nearest millimetre</p> <p>I will know how to construct rectangles accurately</p> <p>I will know how to solve problems involving coordinates</p>	<p>I will know how to plot and read coordinates in the first quadrant</p> <p>I will know how to plot and read coordinates in all four quadrants</p> <p>I will know how to construct a coordinate grid on squared paper (of given size)</p> <p>I will know how to solve problems involving coordinates</p>	<p>I will know how to solve problems involving the four operations in measures contexts</p> <p>I will know how to solve problems involving unequal division of a quantity (i.e. fractions)</p> <p>I will know how to solve simple scaling problems</p> <p>I will know that similar shapes have sides in proportion</p> <p>I will know how to state a ratio or proportion</p>	<p>I will know how to reflect a shape in a mirror line parallel to the one of the axes</p> <p>I will know how to reflect a shape in a mirror line that touches or crosses the shape</p> <p>I will know how to find the mirror line of a reflection</p> <p>I will know how to carry out and describe a translation using horizontal and vertical movements</p> <p>I will know how to understand that</p>	<p>I will know how to convert units of length</p> <p>I will know how to convert units of mass</p> <p>I will know how to convert units of capacity</p> <p>I will know how to solve problems involving measures</p> <p>I will know how to combine the four operations to solve a measures problem</p> <p>I will know how to recognise and use imperial units</p>

<p>decimal places</p> <p>I will know how to multiply a decimal by 10, 100 and 1000</p> <p>I will know how to divide decimals and integers by 10, 100 and 1000</p> <p>I will know how to use negative numbers in the context of temperature</p> <p>I will know how to use negative numbers in other contexts</p> <p>I will know how to round a whole number to the nearest 10, 100, 1000, 10 000, 100 000, 1 000 000</p> <p>I will know</p>	<p>I will know how to identify common factors of two numbers</p> <p>I will know how to test whether a number up to 120 is prime</p> <p>I will know how to define and find multiples of a number</p> <p>I will know how to identify common multiples of two numbers</p>	<p>positive decimals using a formal method</p> <p>I will know how to solve addition and subtraction multi-step problems</p> <p>I will know how to multiply a four-digit number by a single digit using a formal method</p> <p>I will know how to multiply a three-digit number by a two-digit number using a formal method (recap)</p> <p>I will know how to multiply up to a four-digit number by a two-digit number using a</p>	<p>a 3-digit number by 2-digit number using a formal written method</p> <p>I will know how to divide a 4-digit number by a 2-digit number using a formal written method , giving the remainder as a fraction</p> <p>I will know how to divide a 4-digit number by a 2-digit number, giving an answer to up to 2dp, using a formal written method</p>	<p>I will know how to find a missing angle on a straight line</p> <p>I will know how to Identify and use vertically opposite angles</p> <p>I will know how to find missing angles in triangles</p> <p>I will know how to find missing angles in quadrilaterals</p> <p>I will know how to find the size of an angle in a regular polygon</p> <p>I will know how to find missing angles in multi-step problems</p> <p>I will know how to classify quadrilaterals</p>	<p>I will know how find the volume of a cuboid</p> <p>I will know how to solve reverse problems using the volume of a cuboid</p> <p>I will know how to find the volume of a composite shape</p> <p>I will know how to solve other problems involving volume</p>	<p>decimal and percentage equivalence</p> <p>I will know how to calculate a percentage of an amount (number or measure)</p>	<p>and subtract a mixed number and a fraction</p> <p>I will know how to add and subtract two mixed numbers</p> <p>I will know how to multiply two proper fractions</p> <p>I will know how to divide a proper fraction by a whole number</p>	<p>I will know how to find values that satisfy an equation</p>		<p>properties of 3D shapes</p> <p>I will know how to recognise a 3D shape from its net</p> <p>I will know how to sketch the net of a 3D shape</p> <p>I will know how to draw accurate nets for common 3D shapes</p>		<p>I will know how to solve problems involving the relative sizes of two quantities</p> <p>I will know how to solve complex problems involving all of the above</p>	<p>translation and reflections produce an image that is congruent to the original shape</p>	<p>I will know how convert between metric and imperial units</p>
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<p>how to Round a whole number to a given degree of accuracy</p> <p>I will know how to decide the level of accuracy that best suits the question</p>		<p>formal method</p> <p>I will know how to multiply a one-digit number with up to 2 decimal places by a single digit by transforming to a multiplication of whole numbers (mental or written)</p> <p>I will know how to multiply a one-digit number with up to 2 decimal places by a two digit number by transforming to a multiplication of whole numbers</p> <p>I will know how to multiply a one-digit number with up to 2</p>	<p>I will know how to recognise and solve a simple division problem, interpreting any remainders in the context as appropriate.</p> <p>I will know how to calculate using the correct order of operations (no brackets)</p> <p>I will know how to calculate using the correct order of operations (including brackets)</p> <p>I will know how to solve missing number problems involving addition, subtraction, multiplication and division</p>	<p>I will know how to describe and use the properties of rectangles</p>										
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decimal places by a single digit by using a columnar method

I will know how to multiply a one-digit number with up to 2 decimal places by a two digit number by using a columnar method

I will know how to estimate the value of a calculation

I will know how to substitute into a given formula to find values

I will know how to solve complex calculations involving all four operations e.g. $614 + 43 \times 23$ or $454.5 \div 18$