

Maths – Upper Key Stage Two
Progressive statements

Year Group	Number and Place Value, Approximation and estimation	Addition and Subtraction Multiplication and Division	Fractions	Decimals, percentages and fractions	Measures	Ratio and Proportion	Algebra	Geometry properties of shapes	Geometry – position, direction and motion	Data
Year 6	<p>I can read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>I can round any whole number to a required degree of accuracy</p> <p>I can use negative numbers in context, and calculate intervals across zero</p> <p>I can solve number problems and practical problems that involve all of the above</p>	<p>I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication</p> <p>I can divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <p>I can perform mental calculations, including with mixed operations and large numbers</p> <p>I can identify common factors, common multiples and prime numbers</p> <p>I can use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p>I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods</p>	<p>I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p> <p>I can compare and order fractions, including fractions >1</p> <p>I can associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)</p> <p>I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)</p> <p>I can divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)</p>	<p>I can identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places</p> <p>I can multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>I can use written division methods in cases where the answer has up to two decimal places</p> <p>I can solve problems which require answers to be rounded to specified degrees of accuracy</p> <p>I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360 and the use of percentages for comparison</p> <p>I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p>I can solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate</p> <p>I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to three decimal places</p> <p>I can convert between miles and kilometres</p> <p>I can recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>I can calculate the area of parallelograms and triangles</p> <p>I can recognise when it is necessary to use the formulae for area and volume of shapes</p> <p>I can calculate, estimate and compare volume of</p>	<p>I can solve problems involving the relative sizes of two quantities, including similarity</p> <p>I can solve problems involving unequal sharing and grouping</p> <p>I can convert between miles and kilometres</p> <p>I can recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>I can calculate the area of parallelograms and triangles</p> <p>I can recognise when it is necessary to use the formulae for area and volume of shapes</p> <p>I can calculate, estimate and compare volume of</p>	<p>I can express missing number problems algebraically</p> <p>I can use simple formulae expressed in words</p> <p>I can generate and describe linear number sequences</p> <p>I can find pairs of numbers that satisfy number sentences involving two unknowns</p>	<p>I can recognise, describe and build simple 3-D shapes, including making nets</p> <p>I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons</p> <p>I can illustrate and name parts of circles, including radius, diameter and circumference</p> <p>I can find unknown angles where they meet at a point, are on a straight line, and are vertically opposite</p>	<p>I can describe positions on the full coordinate grid (all four quadrants)</p> <p>I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>	<p>I can interpret and construct pie charts and line graphs and use these to solve problems</p> <p>I can calculate and interpret the mean as an average</p>

		<p>to use and why</p> <p>I can solve problems involving addition, subtraction, multiplication and division</p> <p>I can use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy</p>			<p>cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³) and extending to other units, such as mm³ and km³</p>					
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