

Year 6 Maths

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6 Maths	<p><u>Place value and 4 operations</u> Pupils will: Read, write, order and compare numbers up to 10 000 000. Round any whole number. Use negative numbers. Add, subtract, multiply and divide using the formal written methods and solve problems involving all four operations. Perform mental calculations, including with mixed operations and large numbers. Identify common factors, common multiples and prime numbers. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.</p>	<p><u>Fractions</u> Pupils will: Use common factors to simplify fractions and find equivalents. Compare and order fractions, including fractions > 1 Add, subtract, multiply and divide fractions with different denominations and mixed numbers [for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] Divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$] Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p>	<p><u>Decimals, percentages and measures</u> Pupils will: Multiply numbers by 10, 100 and 1000 giving answers up to 3dp. Multiply and divide numbers involving decimals with up to 2dp. Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] 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. Convert between miles and kilometres. Recognise that shapes with the same areas can have different perimeters and vice versa. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3).</p>	<p><u>Algebra, ratio and statistics</u> Pupils will: Use simple formulae. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Solve problems involving similar shapes where the scale factor is known or can be found. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Interpret and construct pie charts and line graphs and use these to solve problems. Calculate the mean as an average.</p>	<p><u>Properties of shape, position and direction and SATs assessments</u> Pupils will: Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p>	<p><u>Post SATs project work and introduction to year 7 curriculum</u></p>