

Year 6 Maths Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	<p><u>Place Value</u> Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>Solve number and practical problems that involve the above</p>	<p><u>Number</u> Divide numbers up to 4 digits by a 2 digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <p>Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>Solve problems involving division</p>	<p><u>Fractions (including decimals and percentages)</u> Multiply simple pairs of proper fractions, writing the answer in its simplest form</p> <p>Divide proper fractions by whole numbers</p>	<p><u>Number – Algebra</u> Use simple formulae</p> <p>Express missing number problems algebraically</p>	<p><u>Geometry</u> Draw 2D shapes using given dimensions and angles</p> <p>Recognise, describe and build simple 3D shapes, including making nets</p> <p>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons</p>	Post SATs project work
Week 2	<p><u>Place Value</u> Round any whole number to a required degree of accuracy</p> <p>Solve number and practical problems that involve the above</p>	<p><u>Number</u> Identify common factors, common multiples and prime numbers</p>	<p><u>Fractions (including decimals and percentages)</u> Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places</p>	<p><u>Number – Algebra</u> Generate and describe linear number sequences</p> <p>Find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>Enumerate possibilities of combinations of 2 variables</p>	<p><u>Geometry</u> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p>	Post SATs project work
Week 3	<p><u>Place Value</u> Use negative numbers in context and calculate intervals across 0</p> <p>Solve number and practical problems that involve the above</p>	<p><u>Number</u> Use their knowledge of the order of operations to carry out calculations involving the 4 operations</p>	<p><u>Fractions (including decimals and percentages)</u> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p><u>Number – Ratio</u> Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p>	<p><u>Geometry</u> Describe positions on the full coordinate grid (all 4 quadrants)</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>	Post SATs project work
Week 4	<p><u>Number</u> Solve problems involving addition and subtraction</p>	<p><u>Fractions (including decimals and percentages)</u> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p>	<p><u>Measurement</u> Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate</p> <p>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 up to 3 decimal places</p> <p>Convert between miles and kilometres</p>	<p><u>Number – Ratio</u> Solve problems involving the calculation of percentages (eg of measures and such as 15% of 360) and the use of percentages for comparison</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>	Post SATs project work	Post SATs project work

Week 5	<u>Number</u> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	<u>Fractions (including decimals and percentages)</u> Compare and order fractions, including fractions > 1	<u>Measurement</u> Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes	<u>Statistics</u> Interpret and construct pie charts and line graphs and use these to solve problems	Post SATs project work	Post SATs project work
Week 6	<u>Number</u> Multiply multi-digit numbers up to 4 digits by a 2 digit whole number using the formal written method of long multiplication Solve problems involving multiplication	<u>Fractions (including decimals and percentages)</u> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	<u>Measurement</u> Calculate the area of parallelograms and triangles Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3) and extending to other units (eg mm^3 and km^3)	<u>Statistics</u> Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average	Post SATs project work	Post SATs project work