Year 6 Maths Overview 2024-2025

Week	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	**Number Place Value including decimals** Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. Y5 Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Identify the value of each digit in numbers given to three decimal places Round any whole number to a required degree of accuracy. Solve number and practical problems that involve all of the above		**Addition and subtraction whole numbers and decimals** Practise addition and subtraction, for larger numbers, using the formal written methods of columnar addition and subtraction Perform mental calculations, including with mixed operations and large numbers. Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.		**Multiplication and Division of whole numbers and multiplication of decimals** Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Practise multiplication and division for larger numbers, using the formal written method of, short multiplication and short division Multiply multi-digit numbers up to 4 digits by a 2 digit number using the formal written method of long multiplication. Divide multi-digit 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 Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context. Perform mental calculations, including with mixed operations and large numbers. Solve problems involving multiplication and division Explore the order of operations using brackets; use their knowledge of the order of operations to carry out calculations involving the four operations Identify common factors, common multiples and prime numbers				**Measures** 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 three decimal places Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Convert between miles and kilometres 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 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 [for example, mm^3 and km^3].		

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Spring	**Geometry - Angles, 3D shape** Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets 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. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius			**Geometry position and movement including negative numbers** Use negative numbers in context, and calculate intervals across zero. 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.		**Fractions and Decimals** Associate a fraction with division and calculate decimal fraction equivalents. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ x ½ = 1/8. Divide proper fractions by a whole number eg ⅓ ÷ 2 = ⅙			**Percentage and ratio** Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Solve problems involving the calculation of percentages and use percentages as comparison Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples Solve problems involving similar shapes where the scale factor is known or can be found		**Statistics** Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average.	

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Summer	**Revision for SATs**		**SATs**	**Algebra** Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of 2 variables				**Post SATS project work** **Transition unit** 30 minute keeping skills and knowledge sharp session to be included at least twice a week				