



Year 6 Maths Curriculum Overview

Term 1	Place Value Counting Read, write and compare	Place Value Decimals	Mental addition and subtraction	Addition and subtraction (integers/ decimals for MA)	Number properties	Mental Multiplication and division link to volume	Multiplication and division
Y6	<ul style="list-style-type: none"> Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit 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 number and practical problems that involve all of the above. 	<ul style="list-style-type: none"> Revise ordering of decimals Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers 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 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. See Y5 for examples. 	<ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers 	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Decimal addition/subtraction 1 and 2 decimal places 	<ul style="list-style-type: none"> Revise squares, cubes Identify common factors, common multiples and prime numbers Problem solve with above 	<ul style="list-style-type: none"> Revise Y5 Perform mental calculations, including with mixed operations and large numbers Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]. Recognise when it is possible to use formulae for volume of shapes 	<ul style="list-style-type: none"> Multiply numbers up to 4 digits by a two-digit number using a formal written method, including long multiplication Multiply one-digit numbers with up to two decimal places by whole numbers Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Term 2	Multiplication (Area)	Geometry Angles	Geometry Properties of 2-D Shapes Include perimeter	Addition and subtraction through Statistics	Fractions	Fractions	Assess and Review
Y6	<ul style="list-style-type: none"> Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area of shapes Area of rectangles with mixed measures Area of rectangles with missing sides Area of rectangles 	<ul style="list-style-type: none"> Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Draw 2-D shapes using given dimensions and angles 	<ul style="list-style-type: none"> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Recognise that shapes with the same areas can have different perimeters and vice versa 	<ul style="list-style-type: none"> Interpret pie charts and line graphs and use these to solve problems Construct line graphs and use these to solve problems 	<ul style="list-style-type: none"> Compare and order fractions, including fractions > 1 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Associate a fraction with division and calculate decimal fraction equivalents Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. 	<ul style="list-style-type: none"> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5 revision) 	Review and consolidate term 1 and 2 Check against ARE

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Term 3	Place Value Negative Numbers Roman Numerals Rounding	Addition and subtraction Decimals and measures	Multiplication and Division - may need to be extended to 2 weeks	Multiplication and Division Problem Solving and decimals	Geometry 3-D and Coordinates	Fractions, decimals and %
Y6	<ul style="list-style-type: none"> Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve all of the above. 	<ul style="list-style-type: none"> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 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 Use estimation to check answers to calculations and determine, in the context of a problem, 	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a two-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 two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context 	<ul style="list-style-type: none"> Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Calculate mean as an average (link to division) Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 	<ul style="list-style-type: none"> Recognise, describe, and build simple 3-D shapes, including making nets 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 	<ul style="list-style-type: none"> Revise finding % Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison

Term 4	Fractions, decimals, %	Fractions consolidation Y5 Ratio and proportion Y6	Time and Measures – 4 rules	Missing information Y5 Algebra Y6 Roman Numerals BODMAS	Area and perimeter Revisit Properties	Review and Assess
Y6	<ul style="list-style-type: none"> Multiply simple pairs of proper fractions, writing the answer in its simplest form revise Divide proper fractions by whole numbers 	<ul style="list-style-type: none"> 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. Include fractions linked to pie charts 	<ul style="list-style-type: none"> Multi step measures problems links to 4 rules, including conversion of measures Time problems Revise 12 hour and 24 hour time Revise time conversion and facts Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	<ul style="list-style-type: none"> Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Missing numbers, Equivalent expressions (for example, $a + b = b + a$) Use their knowledge of the order of operations to carry out calculations involving the four operations 	<ul style="list-style-type: none"> Area of triangles and Parallelograms Revisit area of rectangles Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius 	<ul style="list-style-type: none"> Review and assess terms 3 and 4 check against ARE

Notes for terms 5 and 6.

- By end of term 4 all of the maths curriculum should be taught to Y6.
- Term 5 should be gaps and consolidation
- Term 6 problem solving and transition to next year group

T6	Place Value	Calculation & Measures	Calculation & Measures	Fractions, decimals and %	Geometry	Statistics	Transition x 2 weeks
Y6	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions, decimals and %	Problem solving geometry	Problem solving statistics	Y6 non negotiables for Y7, skill and application