

Year 6	Maths National Curriculum 2014 Programme of Study (POS)		Au	Sp	Su	Arithmetic Coverage	
Y6 1: Place Value	Y6 1a	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.				<p>Calculation and Place Value:</p> <ul style="list-style-type: none"> Round numbers to the nearest 10, 100, 1000, 10000 and 100000 Read Roman numerals to 1000. Use negative numbers in context and calculate intervals across zero Identify common factors, common multiples and prime numbers. Multiply multi-digit number up to 4 digits by a 2-digit number Divide numbers up to 4 digits by a 2-digit whole number – short and long division Solve problems involving the four operations. Perform mental calculations, including 	<p>FDP</p> <ul style="list-style-type: none"> Simplify fractions Add and subtract fractions. Compare and order fractions Multiply proper fractions Identify equivalent fractions Fractions of amounts Convert between mixed numbers and improper fractions Calculate decimal, fraction and percentage equivalence.
	Y6 1b	Round any whole number to a required degree of accuracy.					
	Y6 1c	Use negative numbers in context and calculate intervals across zero.					
	Y6 1d	Solve number and practical problems that involve all of the above.					
Y6 2: Addition and Subtraction	Y6 2a	Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.					
	Y6 2b	Perform mental calculations, including with mixed operations and large numbers.					
	Y6 2c	Use their knowledge of the order of operations to carry out calculations involving the four operations.					
	Y6 2d	Solve problems involving addition, subtraction, multiplication and division.					
	Y6 2e	Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.					
Y6 3: Multiplication and Division	Y6 3a	Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication.					
	Y6 3b	Identify common factors, common multiples and prime numbers.					
	Y6 3c	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.					
	Y6 3d	Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division, interpreting remainders according to the context.					
	Y6 3e	Solve problems involving addition, subtraction, multiplication and division.					
	Y6 3f	Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.					
Y6 4: Fractions	Y6 4a	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.					
	Y6 4b	Compare and order fractions, including fractions > 1					
	Y6 4c	Generate and describe linear number sequences (with fractions)					

	Y6 4d	Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.				<p>with mixed operations and large numbers.</p> <ul style="list-style-type: none"> Use estimation to check answers to calculations Multiply and divide numbers by 10, 100 and 1000. 	<ul style="list-style-type: none"> Calculate percentage of amounts
	Y6 4e	Divide proper fractions by whole numbers					
	Y6 4f	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction					
	Y6 4g	Multiply simple pairs of proper fractions, writing the answer in its simplest form					
	Y6 4h	Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.					
	Y6 4i	Multiply one-digit numbers with up to 2 decimal places by whole numbers.					
	Y6 4j	Use written division methods in cases where the answer has up to 2 decimal places.					
	Y6 4k	Solve problems which require answers to be rounded to specified degrees of accuracy.					
	Y6 4l	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.					
	Y6 4m	Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.					
Y6 5: Position, Direction and Shape	Y6 5a	Describe positions on the full coordinate grid (all four quadrants).					
	Y6 5b	Draw and translate simple shapes on the coordinate plane and reflect them in the axes.					
	Y6 5C	Draw 2-D shapes using given dimensions and angles.					
	Y6 5d	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.					
	Y6 5e	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.					

Y6 6: Area, Perimeter and Volume	Y6 6a	Recognise that shapes with the same areas can have different perimeters and vice versa.					
	Y6 6b	Recognise when it is possible to use formulae for area and volume of shapes.					
	Y6 6c	Calculate the area of parallelograms and triangles.					
	Y6 6d	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)					
Y6 7: Measure	Y6 7a	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.					
	Y6 7b	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 3dp.					
	Y6 7c	Convert between miles and kilometres.					
Y6 9: Statistics	Y6 9a	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.					
	Y6 9b	Interpret and construct pie charts and line graphs and use these to solve problems.					
	Y6 9c	Calculate the mean as an average.					
Y6 10: Ratio	Y6 10a	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.					
	Y6:10b	Solve problems involving similar shapes where the scale factor is known or can be found.					
	Y6 10c	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.					
Y6 11: Algebra	Y6 11a	Use simple formulae					
	Y6 11b	Generate and describe linear number sequences.					
	Y6 11c	Express missing number problems algebraically.					
	Y6 11d	Find pairs of numbers that satisfy an equation with two unknowns.					
	Y6 11e	Enumerate possibilities of combinations of two variables.					



Year 6 Coverage Overview

