



Year 6 Maths Long-Term Plan



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
M/O starter	read, write, order and compare numbers up to 10 000 000 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						add and subtract whole numbers with more than 4 digits, including using formal written methods multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method use written division methods in cases where the answer has up to 2 decimal places use their knowledge of the order of operations to carry out calculations involving the four operations					
	2x	5x	10x	3x	6x	4x	8x	7x	9x	11x	12x	recap
Autumn Term	Number – add and subtract perform mental calculations, including with mixed operations and large numbers add and subtract whole numbers with more than 4 digits, including using formal written methods solve problems with 4 operations solve problems involving number up to 3 decimal places	Number – multiply and divide multiply multi-digit numbers up to 4 digits by a two-digit whole number multiply one-digit numbers with up to 2 decimal places by whole numbers use written division methods in cases where the answer has up to 2 decimal places identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places solve problems which require answers to be rounded to specified degrees of accuracy identify common factors, common multiples and prime numbers divide numbers up to 4 digits by a two-digit number using the formal written method interpret remainders as whole number remainders, fractions, or by rounding	Number – BODMAS use their knowledge of the order of operations to carry out calculations involving the four operations solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Stats interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average.	Number – fractions, decimals and percentages identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ > 1 as a mixed number [for example, $\frac{71}{100} = 0.71 = \frac{71}{100}$] read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 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, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]	Assess week	Review weeks To include: Geometry- position and direction 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 Geometry– volume 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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	Arithmetic visited daily (as well as FDP)											
	3x	6x	4x	8x	7x	7x	9x	9x	11x	11x	12x	12x
Spring Term	Measure – convert 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	Number – fractions, decimals and percentages *Any revision from previous term* divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$] associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $3/8$] solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			Assess week	Review week	Geometry – properties of shape 2D/3D recap find unknown angles in any triangles, quadrilaterals, and regular polygons illustrate and name parts of circles, including radius, diameter and circumference recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	Algebra – use simple formulae generate and describe linear number sequence express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns find possibilities of combinations of two variables.	Measure – area and perimeter 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	Assess week	Review week	



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	Arithmetic visited daily (as well as FDP)											
	2x 5x 10x 3x 6x	3x 6x 4x 8x	4x 8x 7x 9x	7x 9x 11x 12x	Mixed	Mixed	Mixed	Mixed	Mixed	Mixed	Mixed	Mixed
Summer Term	SATS revision (to include ratio) 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 similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.		Assess week - SATs	Year 6 enterprise project							High school transition	