



St Peter's CE (VA) Primary School

Year 6 Long Term Maths Plan - Mastery Curriculum

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15
Autumn		N1 Number: Place value		N2 Number: Addition and Subtraction, Multiplication and Division					N3 Number: Fractions				G1 Geometry: Position & Direction		
Spring	N4 Number: Decimals		N5 Percentages		N6 Algebra		M1 Measurement: Converting Units	M2 Measurement: Perimeter, Area and Volume		N7 Number: Ratio		Consolidation			
Summer	S1 Statistics		G2 Geometry: Properties of Shape			Consolidation and themed projects									

Adapted from White Rose maths

Year 6

N1	Number: Place Value (2wks)	A read, write, order and compare numbers up to 10,000,000 and determine the value of each digit		B round any whole number to a required degree of accuracy		C use negative numbers in context, and calculate intervals across 0		D solve number and practical problems that involve all of the above		
N2	Number: Addition and subtraction Multiplication and Division (4wks)	A multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	B 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	C 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	D perform mental calculations, including with mixed operations and large numbers	E identify common factors, common multiples and prime numbers	F use their knowledge of the order of operations to carry out calculations involving the 4 operations	G solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	H solve problems involving addition, subtraction, multiplication and division	I use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
N3	Number: Fractions (4wks)	A use common factors to simplify fractions; use common multiples to express fractions in the same denomination	B compare and order fractions, including fractions >1	C add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	D multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]	E divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]	F associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]	G solve fraction and practical problems that involve all of the above		

N4	Number: Decimals (2wks)	A 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	B multiply one-digit numbers with up to 2 decimal places by whole numbers		C use written division methods in cases where the answer has up to 2 decimal places		D solve problems which require answers to be rounded to specified degrees of accuracy		
N5	Number: Percentages (2wks)	A recall and use equivalences between simple fractions, decimals and percentages, including in different contexts				B solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison			
N6	Number: Algebra (2wks)	A use simple formulae	B generate and describe linear number sequences		C express missing number problems algebraically		D find pairs of numbers that satisfy an equation with 2 unknowns		E enumerate possibilities of combinations of 2 variables
N7	Number: Ratio (2wks)	A solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts		B solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison		C solve problems involving similar shapes where the scale factor is known or can be found		D solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
G1	Geometry: Position and Direction (1wks)	A describe positions on the full coordinate grid (all 4 quadrants)				B draw and translate simple shapes on the coordinate plane, and reflect them in the axes			
G2	Geometry: Properties of Shape (2wks)	A draw 2-D shapes using given dimensions and angles	B recognise, describe and build simple 3-D shapes, including making nets		C compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons		D illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius		E recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
M1	Measurement: Converting units (1wks)	A solve problems involving the calculation and conversion of units of measure, using			B use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a			C convert between miles and kilometres	

		decimal notation up to 3 decimal places where appropriate		smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places		
M2	Measurement: Area, Perimeter & volume (2wks)	A recognise that shapes with the same areas can have different perimeters and vice versa	B recognise when it is possible to use formulae for area and volume of shapes	C calculate the area of parallelograms and triangles		D 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]
S1	Statistics (2wks)	A interpret and construct pie charts and line graphs and use these to solve problems			B calculate and interpret the mean as an average	