



St Peter's CE (VA) Primary School

Year 5 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		S1 Statistics		N3 Number: Multiplication and Division			M1 Measurement: Perimeter and Area			
Spring	N4 Number: Multiplication and Division			N5 Number: Fractions					N6 Number: Decimals and Percentages		Consolidation				
Summer	Consolidation	N7 Number: Decimals			G1 Geometry: Properties of Shape		G2 Geometry: Position and Direction		M2 Measurement: Converting Units		M3 Measurement: Volume				

Adapted from White Rose Maths

Year 5

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N1	Number: Place Value (3wks)	A read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	B count forwards or backwards in steps of powers of 10 for any given number up to 1000 000	C interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	D round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	E solve number problems and practical problems that involve all of the above	F read Roman numerals to 1000 (M) and recognise years written in Roman numerals	
N2	Number: Addition and subtraction (2wks)	A add and subtract numbers mentally with increasingly large numbers		B add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		C use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		D solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
N3	Number: Multiplication and Division (3wks)	A multiply and divide numbers mentally drawing upon known facts	B multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	C identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	D recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)	E solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	F know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	G establish whether a number up to 100 is prime and recall prime numbers up to 19
N4	Number: Multiplication and Division (3wks)	A multiply and divide numbers mentally drawing upon known facts		B multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers		C divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context		D solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals

N5	Number: Fractions (6wks)	A compare and order fractions whose denominators are all multiples of the same number	B identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	C recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5}$ $+ \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)	D add and subtract fractions with the same denominator and multiples of the same number	E multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	F read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)	G solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates.
N6	Number: Decimals & Percentages (2wks)	A read, write, order and compare numbers with up to three decimal places	B recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	C round decimals with two decimal places to the nearest whole number and to one decimal place	D solve problems involving numbers up to three decimal places	E recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction	F 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 with a denominator of a multiple of 10 or 25.	
N7	Number: Decimals (4wks)	A recognise and write decimal equivalents of any number of units of tenths or hundredths.		B find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths.	C solve simple measures and money problems involving fractions and decimals to two decimal places.		D convert between different units of measure.	

G1	Geometry: Properties of Shape (3wks)	A identify 3-D shapes, including cubes and other cuboids, from 2-D representations	B use the properties of rectangles to deduce related facts and find missing lengths and angles	C distinguish between regular and irregular polygons based on reasoning about equal sides and angles	D know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	E draw given angles, and measure them in degrees ($^{\circ}$)	F identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°
G2	Geometry: Position and Direction (1wks)	A identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed					
M1	Measurement: Area and Perimeter (2wks)	A measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			B calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes		
M2	Measurement: Converting units (2wks)	A convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		B understand and use equivalences between metric units and common imperial units such as inches, pounds and pints		C solve problems involving converting between units of time	
M3	Measurement: Volume (1wks)	A estimate volume (e.g. using 1 cm^3 blocks to build cubes and cuboids) and capacity (e.g. using water)			B use all four operations to solve problems involving measure		
S1	Statistics (2wks)	A solve comparison, sum and difference problems using information presented in a line graph			B complete, read and interpret information in tables, including timetables		