

Year 5/6 Maths Long Term Plan - Autumn



			MOLAND POL										
Week	1	2	3	4	5	6 7	8	8	9	10	11	12	
Curriculum Content	Read, write, order 1000000 and dete value of each digit Read, write, order 10,000,000 and de Count forwards or for any given numb Interpret negative forwards and back whole numbers inc Use negative numb intervals across ze Round any number 100, 1000, 10000 a Round any whole nuccuracy. Solve number probinvolve all of the a Solve number and of the above. Read Roman numer	Number - Place Value Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Use negative numbers in context, and calculate intervals across zero. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 Round any whole number to a required degree of accuracy. Solve number problems and practical problems that involve all		Number- Addition and Subtraction Add and subtract numbers mentally with increasingly large numbers. 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 (columnar addition and subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.		Multiply and divide nur known facts. Multiply and divide wh 1000. Identify multiples and factor pairs of a numb numbers. Identify com and prime numbers. Multiply numbers up to number using a formal multiplication for 2 dig. Multiply multi-digit nu number using the form multiplication. Divide numbers up to a using the formal writt interpret remainders of Divide numbers up to a number using the form division, and interpret remainders, fractions, for the context. Divid digit number using the division, interpreting recontext. Use their knowledge o carry out calculations. Solve problems involving multiplication and division, interpreting recontext.	Multiply and divide whole numbers by 10, 100 and 1000. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Identify common factors, common multiples and prime numbers. Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers. Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. 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. 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. Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the			Number: Fractions Compare and order fractions whose denominators are multiples of the same number. Compare and order fractions, including fractions > 1 Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed Number (eg. 2/5 + 4/5 = 6/5 = 1 1/5) Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Multiply simple pairs of proper fractions, writing the answer in its simplest form (eg. ½ x ½ = 1/8) Divide proper fractions by whole numbers (1/3 ÷ 2 = 1/6) Read and write decimal numbers as fractions (for example 0.71 = 71/100) 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 multiplication and division, including scaling by simple fractions and problems involving simple rates.			
Ready to Progress Criteria	Y5 5NPV - 1 5NF - 1	Y6 6NPV 6NPV	/ - 2	У5	У6	y5 5NF - 2 (addition and subtraction only) 5MD - 1 5MD - 2 5MD - 3 5MD - 4	Y6 6AS/MD - 6AS/MD - 6AS/MD -	- 2 - 3	y5 5F - 1 5F - 2		Y6 6F - 1 6F - 2 6F - 3		
incy jies	Y5 - Consolidate a	75 - Consolidate and secure new learning 4MD-1, 4NF-1, 4MD-3, 5NF-1 (Mastering Number at KS2)											

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Year 5/6 Maths Long Term Plan - Spring



			SHOLAND PRIVATE											
Week	1	2	3	4	5 6	•	7	8	9	10	11	12		
Curriculum Content	Fractions continu	<u>ued from Aut 2</u>	Read, write, order places. Recognise and use and decimal equivation and 1000. Identify the valuation and multiply numbers. Round decimals wand to one decimal solve problems with decimal places. Round decimals wand to one decimal solve problems in Multiply one-digit numbers. Use written divising decimal places. Recognise the per relates to 'number fraction with den Solve problems with den solve problems with den solve problems of \$\frac{1}{2}\$, denominator of a Solve problems in of measures and somparison. Recall and use equivalents of £2.	e thousandths and related alents. The whole numbers and the of each digit in numbers by 10, 100 and 1,0 with two decimal places all place. Thick require answers to round the numbers with up to 2 working number up to 1 mumbers with up to 2 working the cases were cent symbol (%) and referent symbol (%) and so in cases were cent symbol (%) and referent symbol (%) and so in cases were continued to 25.	A decimal places by whole where the answer has up to a understand that per cent d', and write percentages as a decimal. Dercentage and decimal whose fractions with a nof percentages for example the use of percentages fractions, decimals and	iths if 10, Es is ser 2 is a is ser it sole, ior	Year 5 - Multiplication and use square numbers notation for squared at Know and use the vocate factors and composite Establish whether a nubrime numbers up to 19 Solve problems involving using their know and cubes. Year 6: Algebra and Ray Use simple formulae Generate and describe Express missing numbers that satisfumbers that satisfumbers involving uantities where missing the problems involving and the color is known or can Solve problems involving knowledge of fragilish and satisfumbers that satisfumbers that satisfumbers involving and the color is known or can solve problems involving knowledge of fragilish and satisfumbers involving k	s and cube number nd cubed oulary of prime nui (non-prime) number up to 100 is or ould be not to 100 is out to 100 is	mbers, prime ers prime and recall ad division s and multiples, aically. Find pairs two unknowns. of two variables. es of two nund by using where the scale and grouping	Volume Measure and perimeter of shapes in cm Calculate and rectangles (ir including usin m2 estimate shapes. Recog the same are perimeters and Recognise wh formulae for shapes. Calculate the and triangles. Estimate volutions cube example, usin estimate and cubes and cultinits, including cubes and cultinits, includinits, includi	compare the area of ncluding squares), and g standard units, cm2, the area of irregular gnise that shapes with as can have different nd vice versa. en it is possible to use area and volume of	Measurem Converting units See Summ and begin is possible	aer 1 here	
Ready to Progress Criteria	Y5 5F - 1 5F - 2	Y6 6F - 1 6F - 2 6F - 3	Y5 5NPV - 1 5NPV - 2 5NPV - 3 5NPV - 4 5NF - 2 (multiplic part) 5F - 3	ation and division	Y6 6NPV - 3 6NPV - 4	Ę	y5 5G - 2 (Area - squared units)	У6				Y5 5G - 2 (Area- squared units)	У6	
Factual Fluency and Strategies	Y5 - Consolidate and secure new learning 4NF-1, 4NF-2, 4MD-2, 5NF-1 (Mastering Number at KS2)													
Factual and Str	Y6 Spr 1 Simplified Fracti	f Fractions/Arithmagicians (personalised targets)					Y6 Spr 2 FDP Equivalence/Arithmagicians (personalised targets)							



Year 5/6 Maths Long Term Plan - Summer



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Week	1 2		3	4 5	5	6	7	8	9	10	11	12		
Curriculum Content	Measurement- converting units Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; I and ml] 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. Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Convert between miles and kilometres. Solve problems involving converting between units of time. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal		Geometry- position and direction 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. 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- Properties of Shapes and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (o) Draw 2-D shapes using given dimensions and angles. Identify: angles at a point and one whole turn (total 3600), angles at a point on a straight line and 1/2 a turn (total 1800) other multiples of 900 Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.		these to solve pure Complete, read a information in to timetables. Illustrate and no circles, including and circumferenthe diameter is	plems using sented in a line t and construct ine graphs and use problems. and interpret ables including	next year.	for Development,	particularly Y5 RtPs	, ensure secure for			
Ready to Progress Criteria	Y5 5NPV - 5	У6		Y5 5 <i>G</i> - 1	У6 6 <i>G</i> - 1									
Factual Fluency and Strategies	Y5 – Consolidation and se	earning - 4NF-1, 4M	lastering Number at	K52)										
Factual and Str	Y6Sum1 Ratio and Proportion/Ar	s (personalised targ	ets)		Y6 Sum 2 Measures Conversions/Arithmagicians (personalised targets)									