



Poulton Lancelyn Maths Long Term Plan Y5 2022/23

	W1 - Number	W2 -Number	W3-	W4- Number	W5/6- Number		Week 7 -Operations		
A1	Recognise the place value of each digit	Add and subtract whole	Multiply numbers up to 4	Read, write, order and	Read, write, order and compa	re numbers to at least 1,	Add and subtract whole		
	in a four-digit number (thousands,	numbers with more than 4	digits by a one- or two-digit	compare numbers to at	000,000 and determine the value of each digit.		numbers with more than 4		
	hundreds, tens, and ones).	digits, including using formal	number using a formal	least 100,000 and			digits, including using formal written methods (columnar		
		written methods (columnar	written method, including	determine the value of	Count forwards or backwards	ount forwards or backwards in steps of powers of 10			
	Compare numbers with the same	addition and subtraction).	long multiplication for two-	each digit.	for any given number up to 1,000, 000.		addition and subtraction).		
	number of decimal places up to two		digit numbers.						
	decimal places.	Add and subtract numbers		Count forwards or	Read, write, order and compare numbers with up to three decimal places. Use a number line to identify negative numbers and		Use rounding to check		
		mentally with increasingly large	Divide numbers up to 4	backwards in steps of			answers to calculations and		
		numbers eg 5-digit – 4-digit	digits by a one-digit number	powers of 10 for any			determine, in the context of		
		multiple of 10.	using the formal written	given number up to 100,			a problem, levels of		
			method of short division and	000.	begin calculating with them.		accuracy.		
			interpret remainders						
		Add and subtract numbers with	appropriately for the	Read, write, order and	To develop an understanding of number and number patterns to recognise and complete sequences. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.		Solve problems involving		
		up to 4 digits using the formal	context.	compare numbers with			numbers up to three		
		written methods of columnar		up to three decimal			decimal places.		
		addition and subtraction where	Multiply and divide whole	places.					
		appropriate.	numbers and those involving				Use inverse operations to		
			decimals by 10, 100 and				check the answers to		
		Estimate and use inverse	1000.				addition and subtraction		
		operations to check answers to					calculations.		
		a calculation.	Multiply and divide numbers						
			mentally drawing upon						
			known facts.						
	W1 - Operations	W2- Statistics	W 3/4- Factors and Multiples		W5- Shape	W6- Shape	W7- Number		
A2	Add and subtract whole numbers with		Identify multiples and factors,		Find the perimeter of	Consolidate their	Round any number up to 1		
	more than 4 digits, including using	Extract information from tables	pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.		rectilinear shapes through	knowledge of the area	000 000 to the nearest 10,		
	formal written methods (columnar	to solve a range of problems			measurement in	of rectangles by	100, 1000, 10 000 and 100		
	addition and subtraction).	involving four operations.			centimetres. calculating area using square centimetres and	000			
	Use rounding to check answers to	Read line graphs with a range of			Calculate the perimeter of rectilinear shapes in square metres from scale drawings.		Round decimals with two		
	calculations and determine, in the			to 100 is prime and recall			decimal places to the		
	•	scales and interpret the	Establish whether a number up	p	rectilifical shapes in	scale drawings.	·		
	context of a problem, levels of	information to solve simple sum	prime numbers up to 19.		centimetres and metres.		nearest whole number and		
	•	·	prime numbers up to 19.		centimetres and metres. Use a shape's perimeter to	Explore the relationship	·		
	context of a problem, levels of accuracy.	information to solve simple sum and difference problems.	prime numbers up to 19. Recognise and use square num	nbers and cube numbers,	centimetres and metres.	Explore the relationship between a rectangle's	nearest whole number and		
	context of a problem, levels of accuracy. Solve problems involving numbers up	information to solve simple sum and difference problems. Develop the reading and	prime numbers up to 19.	nbers and cube numbers,	centimetres and metres. Use a shape's perimeter to	Explore the relationship	nearest whole number and		
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	W1- Operations	W2-Operations	W3- Operations	W4- Fractions	W5 Fractions	W6- Fractions	
Sp1	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.	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. Multiply whole numbers and those involving decimals by 10, 100 and 1000. Multiply numbers mentally drawing upon known facts.	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 whole numbers and those involving decimals by 10, 100 and 1000. Divide numbers mentally drawing upon known facts.	Further develop knowledge of multiplication and division with remainders to solve problems with more than one step.	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Compare and order fractions whose denominators are all multiples of the same number (less than one).	Add fractions with the same denominator and denominators that are multiples of the same number.	
	W1- Fractions	W2- Fractions	W3- Fractions	W4- Fractions	W5- Number		
Sp2	Subtract fractions with the same denominator and denominators that are multiples of the same number.	Solve multi-step addition and subtraction word problems using fractions and mixed numbers. Interpret what is being asked, write the problem as a number sentence and achieve an answer in context.	Multiply a whole number and a unit fraction together. Convert between improper fractions and mixed numbers to achieve answers in the simplest form. Multiply a whole number and a mixed number together using various methods.	Use fractions as operators and look at comparing different methods while deciding which is most efficient. Use the knowledge of fractions to solve problems that require more than one step.	To read and write decimal numbers (up to two decimal places). This will include learning to read and write decimal numbers greater than 1. Read and write more complex decimal numbers as fractions, including numbers greater than 1.		
	W-1 Number	W-2 Number	W-3 Number	W- 4 Number	W-5 Number	W6- Geometry	
Su1	Write any number up to three decimal places as a fraction. To understand the link between tenths, hundredths and thousandths and write a thousandth as a decimal (0·001). Compare decimals by using their knowledge of place value or converting them into fractions. Round decimals to the nearest whole number and to one decimal place.	Understand percentages represented in a range of different diagrams. Children will understand that per cent means 'number of parts per 100'. Write percentages as a fraction with denominator 100, and as a decimal. It will be made explicit that percentages, decimals and fractions are all different ways of expressing proportions. Convert between fractions, decimals and percentages. Solving problems relating to equivalent fractions decimals and percentages.	Add and subtract decimals less than one using the written column method. Understand what needs to be added to another decimal to the whole. Add numbers less than one where the total is greater than one. Add two numbers that have the same number of decimal places, such as 2.56 + 7.75.	Use the column method to subtract decimals in the context of taking away or finding the difference. This will include examples where an exchange is required or children must identify the mistake in a calculation. Add and subtract decimal numbers with up to 4 digits from whole numbers. They will perform exchanges when there are zeros in the columns. Use the understanding of decimal numbers to count and complete	Learn strategies for solving problems involving adding and subtracting numbers with up to three decimal places. Learn how to solve more complex addition and subtraction multistep problems. Interpret and identify the information necessary to solve the problem. Multiply and divide decimals by 10, 100 and 1,000.	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (°) Identify: • angles at a point and one whole turn (total 360°) • angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°	

	Nut Const.	Ma Garage	Ma County	Describe the rule that the sequence follows and use it to calculate missing terms.	W. M	NG Management	M7 S
Su 2	W1- Geometry Use reasoning about shapes to calculate missing angles and length Use reasoning based on their properties of known lines, angles and shapes. Develop an understanding of parallel and perpendicular lines in relation to one another in shapes and patterns.	W2-Geometry Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	W3- Geometry 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.	W4- Measure Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). Solve problem converting between units.	W5-Measure Solve problems converting between units of time, including those where there is a remainder. Use timetables, applying their knowledge of 24-hour times to read arrival and departure times and calculate durations. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water].	W7- Revision