



Poulton Lancelyn

Maths

Long Term Plan

Y5

2022/23

	W1 - Number	W2 - Operations	W3 - Operation	W 4+5 - Operation	W - Number		Week 7 - Factors and Multiples
A1	<p>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Read, write, order and compare numbers with up to three decimal places</p>	<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Add and subtract numbers mentally with increasingly large numbers eg 5-digit – 4-digit multiple of 10</p>	<p>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</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Multiply and divide numbers mentally drawing upon known facts</p>	<p>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</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Multiply and divide numbers mentally drawing upon known facts</p>	<p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p>		<p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared and cubed</p>
	W1 - Operation	W2 - Fractions	W3 - Fractions	W4 - Number	W5 - Number	W6 – Statistics	W7 - Geometry
A2	<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p> <p>Solve problems involving number up to three decimal places</p> <p>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</p> <p>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</p>	<p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>Compare and order fractions whose denominators are all multiples of the same number (less than one)</p>	<p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p>	<p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p>	<p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p>	<p>Solve comparison, sum and difference problems using information presented in a line graph (and bar charts)</p>	<p>Identify, describe and represent the position of a shape following a <u>reflection</u> or translation, using the appropriate language, and know that the shape has not changed.</p>
	W1 - Fractions	W2 - Fractions	W3 - Measure	W4 - Operations	W5 - Fractions	W6 - Fractions	
Sp1	<p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number</p>	<p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p>	<p>Solve problems involving converting between units of time</p>	<p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction</p>	<p>Solve problems which require knowing percentage and decimal equivalents of (numbers)and those fractions with a</p>	

	Compare and order fractions greater than 1 Add and subtract mixed number fractions		Complete, read and interpret information in tables, including timetables.	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	with denominator 100, and as a decimal	denominator of a multiple of 10 or 25	
	W1 - Geometry	W2 - Fractions	W3 - Geometry	W4 - Statistics	W5 - Fractions		
Sp2	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.	Read and write decimal numbers as fractions Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Add and subtract decimals	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (°) Identify: <ul style="list-style-type: none"> 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°	Solve comparison, sum and difference problems using information presented in a line graph (and bar charts)	Add and subtract fractions with the same denominator and denominators that are multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number		
	W1 - Measure	W2 - Measure	W3 - Measure	W4 - Geometry	W5 - Geometry	W6 - Fractions	
Su1	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 Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes	Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water]	Quadrilaterals and triangles Use the properties of rectangles to deduce related facts and find missing lengths and angles	Identify, describe and represent the position of a shape following a reflection or <u>translation</u> , using the appropriate language, and know that the shape has not changed.	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
	W1 - Geometry	W2 - Operations	W3 - Measure	W4 - Measure	W5 - Number	W6 - Number	7- revision
Su 2	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (°) Identify: <ul style="list-style-type: none"> angles at a point and one whole turn (total 360°) 	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division and a combination of these,	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	Complete, read and interpret information in tables, including timetables.	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Round decimals with two decimal places to the nearest whole number and to one decimal place	Revision

	<ul style="list-style-type: none">angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°	including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints		Round decimals with two decimal places to the nearest whole number and to one decimal place		
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