

Year 5 Maths Curriculum Map: Year 2023-2024

Timescale	7 Weeks	6 Weeks	5 Weeks	6 Weeks	6 Weeks	6 Weeks
Overall theme	Out of this world	Terrible Tudors	The Explorers		The Witches	Let me entertain you
Mathematics	<p>Place value 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>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.</p> <p>Solve number problems and practical problems that involve all of the above.</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</p>	<p>Multiplication & Division Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</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 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>Decimals read and write decimal numbers as fractions [for example, $0.71 = 71/100$].</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place.</p> <p>Read, write, order and compare numbers with up to three decimal places.</p> <p>Solve problems involving number up to three decimal places.</p> <p>Percentages Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with</p>	<p>Multiplication & Division – factors, prime, square numbers 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 (2) and cubed (3).</p> <p>Solve problems involving multiplication and division including using their knowledge of factors and</p>	<p>Roman Numerals read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</p> <p>Four operations Revisit all previously taught methods and problem solving</p> <p>Money Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> <p>Fractions calculations Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p>	<p>Statistics Solve comparison, sum and difference problems using information presented in a line graph.</p> <p>Complete, read and interpret information in tables, including timetables.</p> <p>Geometry Reflection and Translation: 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.</p>

	<p>Addition & Subtraction Add and subtract numbers mentally with increasingly large numbers.</p> <p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction).</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p> <p>Geometry – Shape Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p> <p>Know angles are measured in degrees:</p>	<p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</p> <p>Measurement / Geometry - Perimeter & Area Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p> <p>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes</p>	<p>denominator 100, and as a decimal.</p> <p>Fractions – Compare, Order & Equivalence Compare and order fractions whose denominators are all multiples of the same number.</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</p> <p>Fractions – Calculations Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p> <p>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 fractions with a denominator of a multiple of 10 or 25.</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed</p>	<p>multiples, squares and cubes.</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p> <p>Measurement convert between different units of metric measure</p> <p>understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>use all four operations to solve problems involving measure</p> <p>Statistics Solve comparison, sum and difference problems using information presented in a line graph.</p> <p>Complete, read and interpret information in tables, including timetables.</p>	<p>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 fractions with a denominator of a multiple of 10 or 25.</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$].</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p>Fractions, Decimals and Percentages read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].</p> <p>Recognise and use thousandths and relate them to tenths,</p>	<p>Time and Measure Problem solving with all time and measurement done</p> <p>Four Operations Problem solving with four operations</p> <p>Geometry – angles & lines Identify angles at a point and one whole turn (total 360o).</p> <p>Identify angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180o).</p> <p>Identify other multiples of 90o.</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p>
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	<p>estimate and compare acute, obtuse and reflex angles.</p> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p>	<p>Money Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p>	<p>number [for example, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p>Time Solve problems involving converting between units of time.</p>	<p>Geometry Reflection and Translation: 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.</p> <p>Measurement – Area and Volume Revisit previously learnt area and volume</p> <p>Estimate volume and capacity</p>	<p>hundredths and decimal equivalents.</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 with denominator 100, and as a decimal.</p> <p>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 fractions with a denominator of a multiple of 10 or 25.</p> <p>Time Solve problems involving converting between units of time.</p>	<p>Draw given angles, and measure them in degrees (o).</p> <p>Problem Solving with Time and Measure</p> <p>Problem Solving with the four operations</p>
Cross-Curricular Maths	<p>Science – Earth and Space – measurement</p> <p>Geography – grid references</p>	<p>Science – line graphs for gestation periods</p> <p>History – timelines</p> <p>DT – measuring for soup</p>	<p>Science – graphs and charts for experiments</p> <p>Geography – biomes, population etc.</p>	<p>Science – graphs, charts</p> <p>History - timelines</p>	<p>History – timelines</p> <p>DT – mechanisms and gears - measuring</p>	