



St James & St John Church of England Primary School

Weekly Progression Year 5 2025-2026 Maths

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	<p>NC Number & Place Value Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>Addition & Subtraction Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). Add and subtract numbers mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Multiplication & Division Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</p>						
	<p>Place value Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000</p>	<p>Place value Read & write numbers to 1,000,000 Powers of 10 10/ 100/1,000/ 10,000/ 100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000</p>	<p>Place value Compare & order numbers to 1,000,000 Round to the nearest 10, 100 or 1,000 Round within 100,000 Round within 1,000,000</p>	<p>Addition & subtraction Mental strategies Add whole numbers with more than four digits</p>	<p>Addition & subtraction Subtract whole numbers with more than four digits Round to check answers Inverse operations (addition & subtraction)</p>	<p>Addition & subtraction Multi-step addition & subtraction problems Compare calculations Find missing numbers</p>	<p>Multiplication & division Multiples Common multiples</p>
Autumn 2	<p>NC Multiplication & Division Identify multiples and factors, including finding all factor 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. Establish whether a number up to 100 is prime and recall prime numbers up to 19. Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</p> <p>Fractions (incl decimals & percentages) Compare and order fractions whose denominators are all multiples of the same number. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. 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, $5^2 + 5^4 = 5^6 = 15^2$]. Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p>						
	<p>Multiplication & division Factors Common factors Prime numbers Square numbers Cube numbers</p>	<p>Multiplication & division Multiply by 10, 100 & 1,000 Divide by 10, 100 & 1,000 Multiples of 10, 100 & 1,000</p>	<p>Fractions Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions</p>	<p>Fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1</p>	<p>Fractions Order fractions less than 1 Compare & order fractions greater than 1 Add & subtract fractions with the same denominator</p>	<p>Fractions Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers</p>	<p>Fractions Subtract fractions Subtract from a mixed number Subtract from a mixed number-breaking the whole Subtract two mixed numbers</p>
Spring 1	<p>NC Multiplication & Division 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 and divide 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. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p> <p>Fractions (incl decimals & percentages) Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].</p>						
	<p>Multiplication & division Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 2-digit number (area model) Multiply a 2-digit number by a 2-digit number</p>	<p>Multiplication & division Multiply a 3-digit number by a 2-digit number Multiply a 4-digit number by a 2-digit number Solve problems with multiplication Short division</p>	<p>Multiplication & division Divide a 4-digit number by a 1-digit number Divide with remainders Efficient division Solve problems with multiplication & division</p>	<p>Fractions Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer Calculate a fraction of a quantity</p>	<p>Fractions Fraction of an amount Find the whole Use fractions as operators</p>	<p>Decimals & percentages Decimals up to 2 decimal places Equivalent fractions & decimals (tenths) Equivalent fractions & decimals (hundredths) Equivalent fractions & decimals</p>	



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Spring 2	<p>NC Fractions (incl decimals & percentages) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Round decimals with two decimal places to the nearest whole number and to one decimal place. Read, write, order and compare numbers with up to three decimal places. Solve problems involving number up to three decimal places. 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. Solve problems which require knowing percentage and decimal equivalents of $2^1, 4^1, 5^1, 5^2, 5^4$ and those fractions with a denominator of a multiple of 10 or 25.</p> <p>Measurement 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.</p> <p>Statistics Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables, including timetables.</p>					
	<p>Decimals & percentages Thousandths as fractions Thousandths as decimals Thousandths on a place value chart Order & compare decimals (same number of decimal places) Order & compare any decimals with up to 3 decimal places</p>	<p>Decimals & percentages Round to the nearest whole number Round to 1 decimal place Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals & percentages</p>	<p>Perimeter & area Perimeter of rectangles Perimeter of rectilinear shapes Perimeter of polygons</p>	<p>Perimeter & area Area of rectangles Area of compound shapes Estimate area</p>	<p>Statistics Draw line graphs Read & interpret line graphs Read & interpret tables</p>	<p>Statistics Two-way tables Read & interpret timetables</p>
Summer 1	<p>NC Geometry – shape Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees ($^\circ$). Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and 2^1 a turn (total 180°), other multiples of 90°. 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.</p> <p>Geometry – position & 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.</p> <p>Decimals Solve problems involving number up to three decimal places. Solve problems which require knowing percentage and decimal equivalents of $2^1, 4^1, 5^1, 5^2, 5^4$ and those fractions with a denominator of a multiple of 10 or 25.</p>					
	<p>Shape Understand & use degrees Classify angles Estimate angles Measuring angles up to 180</p>	<p>Shape Draw lines & angles accurately Calculate angles around a point Calculate angles on a straight line</p>	<p>Shape Lengths & angles in shapes Regular & irregular polygons 3d shapes</p>	<p>Position & direction Read & plot coordinates Problem solving with coordinates Translation</p>	<p>Position & direction Translation with coordinates Lines of symmetry Reflection in horizontal & vertical lines</p>	<p>Decimals Use known facts to add & subtract decimals within 1 Complements to 1 Add & subtract decimals across 1</p>



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Summer 2	<p>NC Decimals Solve problems involving number up to three decimal places. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{2}$, $\frac{1}{5}$ and those fractions with a denominator of a multiple of 10 or 25.</p> <p>Number & Place Value Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</p> <p>Measurement Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]. 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.</p>					
	<p>Decimals Subtract decimals with different number of decimal places Efficient strategies for adding & subtracting decimals Decimal sequences</p>	<p>Decimals Multiply by 10, 100 & 1,000 Divide by 10, 100 & 1,000 Multiply & divide decimals – missing values</p>	<p>Negative numbers Understand negative numbers Count through zero in 1s Count through zero in multiples Compare & order negative numbers Find the difference</p>	<p>Converting units Kilograms & kilolitres Millimetres & millilitres Convert units of length Convert between metric & imperial units</p>	<p>Converting units Convert units of time Calculate with timetables</p>	<p>Volume Cubic centimetres Compare volume Estimate volume Estimate capacity</p>

