



St James & St John Church of England Primary School

Maths Termly Progression KS2 2025-2064



Y3	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
National Curriculum	<p>Number and Place Value Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Compare and order numbers up to 1000 Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals and in words Solve number problems and practical problems involving these ideas.</p> <p>Addition & Subtraction Add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Estimate the answer to a calculation and use inverse operations to check answers</p>	<p>Addition & Subtraction Add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p> <p>Multiplication & Division Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</p>	<p>Multiplication & Division Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</p> <p>Measurement Measure, compare, add and subtract: lengths (m/cm/mm); Measure the perimeter of simple 2-D shapes</p>	<p>Fractions Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators Compare and order unit fractions, and fractions with the same denominators</p> <p>Measurement Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)</p>	<p>Fractions Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve all of the above.</p> <p>Measurement Add and subtract amounts of money to give change, using both £ and p in practical contexts Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Measurement Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events [for example to calculate the time taken by particular events or tasks].</p> <p>Geometry Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p> <p>Statistics Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.</p>



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Y3	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
Y3	<p>Place value Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Hundreds, tens & ones Find 1, 10 or 100 more or less Number line to 1,000 Estimate on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s</p> <p>Addition & subtraction Apply numbers bonds within 10 Add & subtract 1s Add & subtract 10s Add & subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange)</p>	<p>Addition & subtraction Add two numbers (across a 10) Add two numbers (across a 100) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit & 3-digit numbers Subtract a 2-digit number from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions</p> <p>Multiplication & division Multiplication-equal groups Use arrays Multiples of 2 Multiples of 5 & 10 Sharing & grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2,4 & 8 times tables</p>	<p>Multiplication & division Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number-no exchange Multiply a 2-digit number by a 1-digit number-with exchange Link multiplication & division Divide a 2-digit number by a 1-digit number-no exchange Divide a 2-digit number by a 1-digit number-flexible partitioning Divide a 2-digit number by a 1-digit number-with remainders Scaling How many ways?</p> <p>Length & perimeter Measure in metres & centimetres Measure in millimetres Measure in centimetres & millimetres Metres, centimetres & millimetres Equivalent lengths (centimetres & millimetres) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter Calculate perimeter</p>	<p>Fractions Understand the denominators of unit fractions Compare & order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare & order non-unit fractions Fractions & scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models</p> <p>Mass & capacity Use scales Measure mass in grams Measure mass in kilograms & grams Equivalent masses (kilograms & grams) Compare mass Add & subtract mass Measure capacity & volume in millilitres Measure capacity & volume in litres & millilitres Equivalent capacities & volumes (litres & millilitres) Compare capacity & volume Add & subtract capacity & volume</p>	<p>Fractions Add fractions Subtract fractions Partition the whole Unit fractions of a set of objects Non-unit fractions of a set of objects Reasoning with fractions of an amount</p> <p>Money Pounds & pence Convert pounds & pence Add money Subtract money Find change</p> <p>Time Roman numerals to 12 Telling the time to 5 minutes Telling the time to the minute Read time on a digital clock Using a.m. & p.m. 24-hour clock Years, months & days Days & hours Hours & minutes – use start & end times Hours & minutes – use durations Minutes & seconds</p>	<p>Time Units of time Solve problems with time</p> <p>Shape Turns & angles Right angles Compare angles Measure & draw accurately Horizontal & vertical Parallel & perpendicular Recognise & describe 2D shapes Draw polygons Recognise & describe 3D shapes Make 3D shapes</p> <p>Statistics Interpret pictograms Draw pictograms Interpret bar charts Draw bar charts Collect & represent data Two-way tables</p>



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Y4	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
National Curriculum	<p>Number & Place Value Count in multiples of 6, 7, 9, 25 and 1000 Find 1000 more or less than a given number Count backwards through zero to include negative numbers Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p> <p>Addition & Subtraction Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Measurement Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes by counting squares</p> <p>Multiplication & Division Recall multiplication and division facts for multiplication tables up to 12×12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p>	<p>Multiplication & Division Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations Multiply two-digit and three-digit numbers by a one-digit number using formal written layout Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p> <p>Measurement Convert between different units of measure [for example, kilometre to metre) Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes by counting squares</p> <p>Fractions Recognise and show, using diagrams, families of common equivalent fractions</p>	<p>Fractions (inc decimals) Recognise and show, using diagrams, families of common equivalent fractions Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Add and subtract fractions with the same denominator Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to $4^1, 2^1, 3_4$ Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>	<p>Fractions (inc decimals) Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to $4^1, 2^1, 3_4$ Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>Money Estimate, compare and calculate different measures, including money in pounds and pence</p> <p>Measurement Convert between different units of measure [for example, hour to minute] Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</p>	<p>Geometry - shape Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify acute and obtuse angles and compare and order angles up to two right angles by size Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry.</p> <p>Statistics Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p> <p>Geometry – position & direction Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon.</p>



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Y4	<p>Place value Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning numbers to 10,000 Find 1, 10, 100 1000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000</p> <p>Addition & subtraction Add & subtract 1s, 10s, 100s & 1,000s Add up to two 4-digit numbers-no exchange Add two 4-digit numbers-one exchange Add two 4-digit numbers-more than one exchange Subtract two 4-digit numbers-no exchange Subtract two 4-digit numbers-one exchange Subtract two 4-digit numbers-more than one exchange Efficient subtraction Estimate answers Checking strategies</p>	<p>Area What is area? Count squares Make shapes Compare areas</p> <p>Multiplication & division Multiples of 3 Multiply & divide by 6 6 times-table & division facts Multiply & divide by 9 9 times-table & division facts The 3, 6 & 9 times tables Multiply & divide by 7 7 times-table & division facts 11 times-table & division facts 12 times-table & division facts Multiply by 1 & 0 Divide a number by 1 & itself Multiply three numbers</p>	<p>Multiplication & division Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts-multiplication & division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number Divide a 2-digit number by a 1-digit number Divide a 3-digit number by a 1-digit number Correspondence problems Efficient multiplication</p> <p>Length & perimeter Measure in kilometres & metres Equivalent lengths (kilometres & metres) Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes Find missing length in rectilinear shapes Calculate the perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons</p> <p>Fractions Understand the whole Count beyond 1 Partition a mixed number</p>	<p>Fractions Number lines with mixed numbers Compare & order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Add two or more fractions Add fractions & mixed numbers Subtract two fractions Subtract from whole numbers Subtract from mixed numbers</p> <p>Decimals Tenths as fractions Tenths as decimals Tenths on a place value chart Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart Divide a 1- or 2-digit number by 100</p>	<p>Decimals B Make a whole with tenths Make a whole with hundredths Partition decimals Flexibly partition decimals Compare decimals Order decimals Round to the nearest whole number Halves & quarters as decimals</p> <p>Money Write money using decimals Convert between pounds & pence Compare amounts of money Estimate with money Calculate with money Solve problems with money</p> <p>Time Years, months, weeks & days Hours, minutes & seconds Convert between analogue & digital times Convert to the 24-hour clock Convert from the 24-hour clock</p>	<p>Shape Understand angles as turns Identify angles Compare & order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure</p> <p>Statistics Interpret charts Comparison, sum & difference Interpret line graphs Draw line graphs</p> <p>Position & direction Describe position using coordinates Plot coordinates Draw 2D shapes on a grid Translate on a grid Describe translation on a grid</p>



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Y5	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
National Curriculum	<p>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>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, $5^2 + 5^4 = 5^6 = 15^1$] Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p>	<p>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>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>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>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 cm^3 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>



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Y5	<p>Place value Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 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 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 Subtract whole numbers with more than four digits Round to check answers Inverse operations (addition & subtraction) Multi-step addition & subtraction problems Compare calculations Find missing numbers</p> <p>Multiplication & division Multiples Common multiples</p>	<p>Multiplication & division Factors Common factors Prime numbers Square numbers Cube numbers 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 Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare & order fractions greater than 1 Add & subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number-breaking the whole Subtract two mixed numbers</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 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 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 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 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 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 Area of rectangles Area of compound shapes Estimate area</p> <p>Statistics Draw line graphs Read & interpret line graphs Read & interpret tables Two-way tables Read & interpret timetables</p>	<p>Shape Understand & use degrees Classify angles Estimate angles Measuring angles up to 180 Draw lines & angles accurately Calculate angles around a point Calculate angles on a straight line Lengths & angles in shapes Regular & irregular polygons 3D shapes</p> <p>Position & direction Read & plot coordinates Problem solving with coordinates Translation 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 Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Adding decimals with different number of decimal places Subtract decimals with different number of decimal places Efficient strategies for adding & subtracting decimals Decimal sequences 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 & kilometres Millimetres & millilitres Convert units of length Convert between metric & imperial units Convert units of time Calculate with timetables</p> <p>Volume Cubic centimetres Compare volume Estimate volume Estimate capacity</p>



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Y6	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
National Curriculum	<p>Number –place value Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve all of the above.</p> <p>Addition, Subtraction, Multiplication & Division Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve all of the above. Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p>	<p>Fractions (inc decimals & percentages) Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$] Divide proper fractions by whole numbers [for example, $\frac{3}{4} \div 2 = \frac{3}{8}$] Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$].</p> <p>Measurement Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 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 three decimal places Convert between miles and kilometres</p>	<p>Ratio & Proportion Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p>Algebra Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables.</p> <p>Decimals Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p>	<p>Fractions (inc decimals & percentages) Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p>Measurement Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].</p> <p>Statistics Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average.</p>	<p>Geometry – shape Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p> <p>Geometry – position & direction 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.</p>	Consolidation



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Maths Termly Progression KS2 2025-2064



Y6	Autumn Term 1 st Half	Autumn Term 2 nd Half	Spring Term 1 st Half	Spring Term 2 nd Half	Summer Term 1 st Half	Summer Term 2 nd Half
Y6	<p>Place value Numbers to 1,000,000 Numbers to 10,000,000 Read & write numbers to 10,000,000 Powers of 10 Number line to 10,000,000 Compare & order any integers Round any integer Negative numbers</p> <p>Addition, subtraction, multiplication & division Add & subtract integers Common factors Common multiples Rules of divisibility Primes to 100 Square & cube numbers Multiply up to a 40-digit number by a 2-digit number Solve problems with multiplication Short division Division using factors Introduction to long division Long division with remainders Solve problems with division Solve multi-step problems Order of operations Mental calculations & estimation Reason from known facts</p>	<p>Fractions a Equivalent fractions & simplifying Equivalent fractions on a number line Compare & order (denominator) Compare & order (numerator) Add & subtract simple fractions Add & subtract any two fractions Add mixed numbers Subtract mixed numbers Multi-step problems</p> <p>Fractions b Multiply fractions by integers Multiply fractions by fractions Divide a fraction by an integer Divide any fraction by an integer Mixed questions with fractions Fraction of an amount Fraction of an amount-find the whole</p> <p>Converting units Metric measures Convert metric measures Calculate with metric measures Miles & kilometres Imperial measures</p>	<p>Ratio Add or multiply? Use ratio language Introduction to the ratio symbol Ratio & fractions Scale drawing Use scale factors Similar shapes Ratio problems Proportion problems Recipes</p> <p>Algebra 1-step function machines 2-step function machines Form expressions Substitution Formulae Form equations Solve 1-step equations Solve 2-step equations Find pairs of values Solve problems with two unknowns</p> <p>Decimals Place value within 1 Place value-integers & decimals Round decimals Add & subtract decimals Multiply by 10, 100 & 1,000 Divide by 10, 100 & 1,000 Multiply decimals by integers Divide decimals by integers Multiply & divide decimals in context</p>	<p>Fractions, decimals & percentages Decimal & fraction equivalents Fractions as division Understand percentages Fractions to percentages Equivalent fractions, decimals & percentages Percentage of an amount-one step Percentage of an amount-multi-step Percentages – missing values</p> <p>Area, perimeter & volume Shapes - same area Area & perimeter Area of a triangle - counting squares Area of a right-angled triangle Area of any triangle Area of a parallelogram Volume - counting cubes Volume of a cuboid</p> <p>Statistics Line graphs Dual bar charts Read & interpret pie charts Pie charts with percentages Draw pie charts The mean</p>	<p>Shape Measure & classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle-missing angles Angles in quadrilaterals Angles in polygons Circles Draw shapes accurately Nets of 3-d shapes</p> <p>Position & direction The first quadrant Read & plot points in four quadrants Translations Reflections</p>	