

Succeeding together - fostering a love of learning, within a nurturing Christian community, to bring out 'the best in everyone'.

MATHS PROGRESSION MAP

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS Reception	<p>Numbers and place value. Numbers to 5. Addition and subtraction sorting. Number and place value. Comparing groups. Addition and subtraction. Change within 5. Measurement. Time. (Taken from White Rose)</p> <p>Ten Town 1-10 Number blocks 1 – 10</p>	<p>Addition and subtraction. Numbers to 5. Numbers and place value. Numbers to 10. Addition and subtraction. Addition to 10. Geometry. Shape and space. (Taken from White Rose)</p> <p>Ten Town 10 – 15 Number blocks 10 – 15</p> <p>Real life problems</p>	<p>Addition and subtraction. Numbers to 5. Numbers and place value. Numbers to 10. Addition and subtraction. Addition to 10. Geometry. Shape and space. (Taken from White Rose)</p> <p>Ten Town 10 – 15 Number blocks 10 – 15</p> <p>Real life problems</p>	<p>Geometry. Exploring patterns. Addition and subtraction. Counting on and back. Number and place value. Numbers to 20. Multiplication and division. Numerical patterns. Measurement. Measure. (Taken from White Rose)</p> <p>Ten Town 15 – 20 Number blocks 11 – 20</p> <p>Can add and subtract two single digit numbers and count on or back to find the answer.</p>	<p>Geometry. Exploring patterns. Addition and subtraction. Counting on and back. Number and place value. Numbers to 20. Multiplication and division. Numerical patterns. Measurement. Measure. (Taken from White Rose)</p> <p>Ten Town 15 – 20 Number blocks 11 – 20</p> <p>Can add and subtract two single digit numbers and count on or back to find the answer.</p>	<p>Geometry. Exploring patterns. Addition and subtraction. Counting on and back. Number and place value. Numbers to 20. Multiplication and division. Numerical patterns. Measurement. Measure. (Taken from White Rose)</p> <p>Ten Town 15 – 20 Number blocks 11 – 20</p> <p>Can add and subtract two single digit numbers and count on or back to find the answer.</p>
Year 1	<p><u>Number and Place value</u> (sort and count objects; represent objects; count forwards and backwards; count one more and one less; one-one correspondence; compare objects; inequality signs; compare numbers; order objects and numbers; ordinal</p>	<p><u>Addition and subtraction</u> – this topic might span across two terms. <u>Shape</u> (recognize and name 3D shapes; sort 3D shapes; recognize and name 2D shapes; sort 2D shapes; patterns with 3D and 2D shapes).</p>	<p><u>Number – addition and subtraction within 20</u> (add by counting on; find and make number bonds; add by making 10; subtraction, not crossing 10; related facts; compare number sentences). <u>Number and Place value – within 50</u> (numbers to 50;</p>	<p><u>Number and Place value within 50</u> – this topic will span across two terms. <u>Measurement: length and height</u> (compare lengths and heights; measure lengths). <u>Measurement: weight and volume</u> (introduce weight and mass; measure mass; compare</p>	<p><u>Multiplication and division</u> (count in 10s; making equal groups; add equal groups; making arrays; making doubles; making equal groups; sharing equally). <u>Fractions</u> (find a half; find a quarter). <u>Position and direction</u> (describe turns and position).</p>	<p><u>Number and Place value up to 100</u> (counting to 100; partitioning numbers; comparing numbers; ordering numbers; one more, one less). <u>Money</u> (recognising coins and notes; counting in coins). <u>Time</u> (before and after; dates; time</p>

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	<p>numbers; the number line). <u>Number – addition and subtraction</u> (part-whole model; addition symbol; fact families; number bonds to 10; systematic number bonds; compare number bonds; add together; add more; finding a part; how many left?; subtraction; count back; find the difference; compare statements).</p>	<p><u>Number and Place value – up to 20</u> (count and write numbers to 20; numbers from 11 to 20; tens and ones; count one more and one less; compare groups of objects; compare numbers; order groups of objects and numbers).</p>	<p>tens and ones; represent numbers to 50; one more one less; compare and order objects/ numbers within 50; count in 2s and 5s).</p>	<p>mass; introduce capacity and volume; measure and compare capacity).</p>		<p>to the hour; time to the half hour; writing time; comparing time).</p>
<p>Year 2</p>	<p><u>Number and Place value</u> (count objects to 100; represent numbers to 100; tens and ones; place value charts, compare objects; compare numbers; order objects and numbers; count in</p>	<p><u>Multiplication and division</u> (recognise equal groups; make equal groups; add equal groups; the multiplication symbol; multiplication from pictures; use arrays; the 2-, 5-</p>	<p><u>Shape</u> (recognise 2D and 3D shapes; count sides and vertices of 2D shapes; draw 2D shapes; line of symmetry; sort 2D shapes; make patterns; count faces, edges and vertices on 3D</p>	<p><u>Time</u> (o'clock and half past; quarter past and quarter to; telling time to 5 minutes; find durations of time; compare durations of time). <u>Measurement – mass/capacity and temperature</u></p>	<p><u>Position and direction</u> (describing movement; describing turns; describing movement and turns; making patterns with shapes).</p>	<p><u>Place value</u> <u>Addition and subtraction</u> <u>Multiplication and division</u> <u>Measurement</u> – recap of key concepts.</p>

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	<p>2s, 5s and 10s; count in 3s). <u>Addition and subtraction</u> (fact families to 20; checking calculations; compare number sentences; related facts; bonds to 100; add and subtract 1s; 10 more and 10 less; add and subtract tens; add 2-digits and 1-digit; subtract 1-digit from 2-digits; add 2-digit numbers; subtract with 2-digits; add three 1-digit numbers). <u>Measurement - Length and height</u> (measure length – cm and m; compare lengths; order lengths; four operations with lengths).</p>	<p>and 10-times tables). <u>Money</u> (count money – notes and coins; select money; make the same amount; compare money; find the total; find the difference; find change; two-step problems). <u>Statistics</u> (make tally charts; draw and interpret pictograms; block diagrams). <u>Place value/addition and subtraction</u> – recap of key concepts.</p>	<p>shapes; sort 3D shapes; make patterns with 3D shapes). <u>Fractions</u> (make equal parts; recognise a half; find a half; recognise a quarter; find a quarter; recognise a third; find a third; unit fractions; non-unit fractions; equivalence of $\frac{1}{2}$ and $\frac{2}{4}$; find three quarters; count in fractions). <u>Place value/addition and subtraction</u> – recap of key concepts.</p>	<p>(compare and measure mass in g and kg; compare volume; millilitres; litres; temperature). <u>Place value/addition and subtraction</u> – recap of key concepts. <u>Multiplication and division</u> (make equal groups – sharing and grouping; divide by 2; odd and even numbers; divide by 5 and 10). <i>NB: Multiplication and division may be taught twice across both terms, rather than split between multiplication and division.</i></p>	<p>Revision of key areas throughout the White Rose scheme.</p>	
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<p>Year 3</p>	<p><u>Number and place value</u> (hundreds; represent numbers to 1000; 100s, 10s and 1s; number line to 1000; find 1, 10, 100 more or less than a given number; compare objects and numbers to 1000; order numbers; count in 50s). <u>Addition and subtraction</u> (add and subtract multiples of 100; adding and subtracting 3-digit and 1-digit numbers; adding and subtracting 3-digit and 2-digit numbers; add and subtract 100s; pattern spotting; add and subtracting two 3-digit numbers; estimate and check answers).</p>	<p><u>Multiplication and division</u> (equal groups; multiply and divide by 3; multiply and divide by 4; multiply and divide by 8). <u>Length and perimeter</u> (measure lengths; equivalent lengths – m and cm; equivalent lengths – cm and mm; compare, add and subtract lengths; measure and calculate perimeter). <u>Measurement – mass and capacity</u> (measure mass; compare mass; add and subtract mass; measure and compare capacities; add and subtract capacities;</p>	<p><u>Multiplication and division</u> (comparing statements; related calculations; multiply and divide 2- and 1-digit numbers; scaling; how many ways?). <u>Measurement: money</u> (pounds and pence; convert pounds and pence; add and subtract money; give change).</p>	<p><u>Fractions</u> (unit and non-unit fractions; making the whole; tenths; count in tenths; tenths as decimals; fractions on a number line; fractions of an amount). <u>Consolidation of key concepts from Autumn and Spring Term.</u></p>	<p><u>Geometry: shape and direction</u> <u>Fractions</u> <u>Review all operations</u> <u>problem solving and reasoning</u></p>	<p><u>Measurement: Capacity</u> <u>Volume</u> <u>Statistics</u> (pictograms; bar charts; tables). <u>Assess and review</u></p>

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	<p><u>Properties of shape</u> (turns and angles, right angles in shapes; compare angles; draw accurately; horizontal and vertical; parallel and perpendicular; 2D shapes; 3D shapes; construct 3D shapes).</p>					
<p>Year 4</p>	<p><u>Number and place value</u> (Roman numerals to 100; round to the nearest 10 and 100; count in 1000s; 1000s, 100s, 10s and 1s; partitioning; number line to 10000; 1000 more or less; compare 4-digit numbers; order numbers; round to the nearest 1000;</p>	<p><u>Length and perimeter</u> (kilometres; perimeter on a grid; perimeter of a rectangle; perimeter of a rectilinear shape). <u>Multiplication and division</u> (multiply by 10 and 100; divide by 10 and 100; multiply by 1 and 0; divide by 1; 6, 7 and 9 times-tables).</p>	<p><u>Multiplication and division</u> (11 and 12 times tables; multiply 3 numbers; factor pairs; efficient multiplication; written methods; multiply 2-digit and 1-digit numbers; multiply 3-digit and 1-digit numbers; divide 2-digits by 1-digit; divide 3-digits by 1-digit; correspondence questions).</p>	<p><u>Fractions</u> (what is a fraction? equivalent fractions; fractions greater than 1; counting in fractions; add 2 or more fractions; subtract 2 fractions; subtract from whole amounts; calculate fractions of a quantity; problem solving – calculate quantities).</p>	<p><u>Decimals</u> (make a whole; write decimals; compare decimals; order decimals; round decimals; halves and quarters). <u>Money</u> (pounds and pence; ordering and estimating money; four operations). <u>Time</u> (hours, minutes and seconds; years, months, weeks and days; analogue to</p>	<p><u>Statistics</u> (interpret charts; comparison, sum and difference; line graphs). <u>Position and Direction</u> (describe position; draw on a grid; move on a grid; describe a movement).</p>

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	<p>count in 25s; negative numbers). Addition and subtraction (1s, 10s, 100s and 1000s; add and subtract two 4-digit numbers; efficient subtraction; estimate answers; checking strategies).</p>		<p>Measurement – area (what is area? counting squares; making shapes; comparing area).</p>	<p>Decimals (recognise tenths and hundredths; tenths as decimals; tenths on a place value grid and a number line; divide 1 digit by 10 and 2 digits by 10; hundredths; hundredths as decimals; divide 1 or 2-digits by 100).</p>	<p>digital 12 and 24 hour).</p>	
<p>Year 5</p>	<p>Number and place value (numbers to 10000; Roman Numerals to 1000; round to nearest 10, 100 and 1000; numbers to 100000; compare and order large numbers; numbers to a million; negative numbers). Addition and subtraction (add and subtract whole numbers with more than 4 digits; round to estimate and</p>	<p>Multiplication and division (multiply 4 by 1-digit numbers; multiply 2-digit by 2-digit numbers; multiply 4- by 2-digit numbers; divide 4-digits by 1-digit numbers; divide with remainders). Geometry: properties of shape (measuring angles in degrees; measuring with a protractor; draw lines and angles</p>	<p>Multiplication and division (multiples; factors; common factors; prime numbers; square and cube numbers; multiply and divide by 10, 100 and 1000; multiples of 10, 100 and 1000). Fractions (equivalent fractions; improper to mixed numbers and vice versa; number sequences; compare and order fractions; add and</p>	<p>Decimals (decimals up to 2d.p; decimals as fractions; understand thousandths; rounding decimals; order and compare decimals; understand percentages; percentages as fractions and decimals; equivalent F.D.P). Statistics (read and interpret line graphs; draw line</p>	<p>Decimals (adding and subtracting decimals within 1; complements to 1; adding and subtracting wholes and decimals; decimal sequences; multiplying and dividing decimals by 10, 100 and 1000). Perimeter and area (measure and calculate perimeter; area of rectangles; area of compound shapes;</p>	<p>Position and direction (position in the first quadrant; reflection; translation). Volume (what is volume? compare volume; estimate volume and capacity). Recapping of key concepts, particularly four operations.</p>

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	<p>approximate; inverse operations; multi-step problem solving).</p>	<p>accurately; calculating angles on a straight line and around a point; calculating angles and lengths in shapes; regular and irregular polygons; reasoning about 3D shapes). Converting units (kilograms and kilometres; milligrams and millilitres; metric and imperial units; converting units of time; timetables).</p>	<p>subtract fractions; add mixed numbers; subtract fractions and mixed numbers; subtract by breaking the whole; multiply unit fractions by an integer; multiply mixed numbers by integers; fraction of an amount; using fractions as operators).</p>	<p>graphs; read and interpret tables; two-way tables; timetables).</p>	<p>area of irregular shapes).</p>	
<p>Year 6</p>	<p>Number and place value (numbers to ten million; compare and order any number; round any number; negative numbers). Four operations (add and subtract integers; multiply 4-digit by 2-digit numbers; short</p>	<p>Fractions (simplify fractions; fractions on a number line; compare and order; add and subtract fractions; mixed addition and subtraction; multiply fractions by integers; multiply fractions by fractions; divide</p>	<p>Decimals (three d.p; multiply and divide by 10, 100 and 1000; multiply and divide decimals by integers; division to solve problems; decimals as fractions; fractions to decimals). Percentages (fractions to</p>	<p>Converting units (metric measures; convert metric measures; calculate with metric measures; miles and kilometres; imperial measures). Perimeter, area and volume (shapes – same area; area and</p>	<p>Statistics (read and interpret line graphs; use line graphs to solve problems; circles; read and interpret pie charts; pie charts with percentages; draw pie charts; find the mean).</p>	<p>Teaching of any concepts that need re-visiting.</p>

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	<p>division; division using factors; common factors; common multiples; primes to 100; squares and cubes; order of operations; mental calculations and estimation; reason from known facts).</p>	<p>fractions by integers; four rules with fractions; fraction of an amount; fraction of an amount – find the whole). <u>Position and direction</u> (the first quadrant; four quadrants; translations; reflections).</p>	<p>percentages; equivalent FDP; order FDP; percentage of an amount; percentages – missing values). <u>Algebra</u> (find a rule – one and two step; forming expressions; substitution; formulae; forming equations; solving one and two step equations; find pairs of values; enumerate possibilities).</p>	<p>perimeter; area of a triangle; area of parallelogram; volume – counting cubes; volume of a cuboid). <u>Ratio</u> (using ratio language; ratio and fractions; ratio symbol; calculating ratio; using and calculating scale factors; ratio and proportion problems).</p>	<p><u>Properties of shape</u> (measure with a protractor; introduce and calculate angles; vertically opposite angles; angles in a triangle; angles in special quadrilaterals; angles in regular polygons; draw shapes accurately; draw nets of 3D shapes). <u>Teaching of any concepts that need re-visiting.</u></p>	
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