



# Welwyn St. Mary's Curriculum Map for **Maths**

	Autumn	Spring	Summer
<b>Reception</b>	<p>Baseline completed for Maths in weeks 1-3.</p> <p>Counting forwards and backwards</p> <p>Recite numbers past 5</p> <p>Subitising - Fast recognition of up to 3 objects without having to count them</p> <p>Say one number name for each item in order 1,2,3,4,5</p> <p>Cardinal principal - Know that the last number reached when counting a small set of objects tells you how many there are in total</p> <p>Show finger numbers up to 5</p> <p>Link numerals and amounts up to 5</p> <p>Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc</p> <p>Talk about and identify patterns around them</p> <p>Extend and create ABAB patterns</p> <p>Notice and correct an error in a repeating pattern</p> <p>Compare quantities using language 'more than', 'fewer than'</p> <p>Experiment with their own symbols and marks as well as numerals</p> <p>Solve real world mathematical problems with numbers up to 5</p> <p>Number formation</p> <p>Talk about and explore 2D and 3D shapes - use informal and mathematical language; 'sides', 'corners', 'straight', 'flat', 'round'</p> <p>Understand position through words alone</p> <p>Describe a familiar route</p> <p>Discuss routes and locations, using words like 'in front of' and 'behind'</p>	<p>Count beyond 10</p> <p>Subitise</p> <p>Compare numbers</p> <p>Link numerals with cardinal number value</p> <p>Understand the 'one more than/one less than' relationship between consecutive numbers</p> <p>Explore the composition of numbers to 10</p> <p>Make comparisons between objects relating to size, length, weight and capacity</p> <p>Describe a sequence of events, real or fictional, using words such as 'first', 'then'</p> <p>Number formation</p> <p>Number bonds to 10 - Automatically recall number bonds for numbers 0-10</p> <p>Exploring shape in greater detail - Combine shapes to make new ones - an arch, a bigger triangle etc</p> <p>Select, rotate and manipulate shapes in order to develop spatial reasoning skills (Rec)</p> <p>Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can (Rec)</p> <p>Measure - Compare length weight and capacity (Rec)</p> <p>Data handling</p> <p>Counting in 2s and 10s</p> <p>Subtraction</p>	<p>Number bonds to 10 - Automatically recall number bonds for numbers 0-10</p> <p>Measure - Compare length weight and capacity (Rec)</p> <p>Patterns - Continue, copy and create repeating patterns (Rec)</p> <p>Data handling</p> <p>Counting in 2s and 10s</p> <p>Doubling, halving and sharing</p> <p>Money</p> <p>Number bonds to 10 - Automatically recall number bonds for numbers 0-10</p> <p>Measure - Compare length weight and capacity (Rec)</p> <p>Doubles and halves</p> <p>Money</p> <p>Counting in 2s, 10s and 5s</p> <p>Odds and evens</p>
<b>Year 1</b>	<p>Geometry - Positional Language Including Ordinal Numbers</p> <p>Numbers to Ten - Finding Patterns in Numbers (including subitising)</p> <p>Numbers to Ten - Counting and Comparison (more, less, fewer)</p> <p>Numbers to Ten - Estimating and Ordering</p> <p>Numbers to Ten - Regrouping the Whole</p> <p>Numbers to Ten - Part Whole Addition and Subtraction</p> <p>Numbers to Ten - Solving Problems Using Part or Whole Unknown</p> <p>Numbers to Ten - Comparison</p> <p>Numbers to Ten - Equality and Balance</p>	<p>Measures - The Language of Comparing Length, Height, Mass and Speed</p> <p>Sequencing Events - Days of the Week and Months of the Year</p> <p>Numbers to Twenty - Adding using 'Think 10'</p> <p>Numbers to Twenty - Subtraction using 'Think 10'</p> <p>Numbers to Twenty - Equality and Balance</p> <p>Numbers to Twenty - Part or Whole Unknown</p> <p>Numbers to Twenty - Language and Problem Solving (part or whole unknown)</p> <p>Numbers to Twenty - Comparison (difference, more, less, fewer) including Statistics</p>	<p>Multiplication and Division - Equal or Unequal Groups and Remainders</p> <p>Multiplication - Repeated Addition and Arrays (number of groups and size of group)</p> <p>Multiplication - Problem Solving (identifying the number of groups and size of the group)</p> <p>Multiplication - Scaling and Counting in 2s to 24</p> <p>Division - Sharing and Grouping Problems</p> <p>Geometry - Turns</p> <p>Time - Telling the Time, O'clock and Half Past</p> <p>Fractions - Sharing into Equal Groups</p> <p>Fractions - Equal or Unequal Parts of Shapes</p>

	<p>Numbers to Twenty - Making 10 and Some More</p> <p>Numbers to 20 - Estimating and Ordering, 1 More and 1 Less</p> <p>Numbers to Twenty - Doubling and Halving</p> <p>Numbers to Twenty - Odd and Even Numbers</p> <p>Geometry - Names and Properties of 2-D and 3-D Shape</p>	<p>Measures - Coins and Combinations to 20p, Ordering and Comparing</p> <p>Counting in 2s, 5s 10s</p> <p>Measures - Non-standard Measures and Introducing Simple Standard Measures</p>	<p>Fractions - of Continuous Quantities including Capacity</p> <p>Numbers to Twenty - Review</p> <p>Numbers to One Hundred - Place Value and Digits, Making Tens and Some More</p> <p>Place Value - Estimation, Ordering and Comparison</p>
<b>Year 2</b>	<p>Securing Fluency to Twenty</p> <p>Place Value - Making Tens and Some More</p> <p>Place Value and Regrouping Two-Digit Numbers</p> <p>Counting On and Back in Ones and Tens from any Number</p> <p>Representing, Ordering and Comparing Numbers to 100 and Quantities for Measures</p> <p>Estimation and Magnitude</p> <p>Numbers to 20 - Mental Addition and Subtraction</p> <p>Finding Complements of 10 and 100 Including Measures</p> <p>Add and Subtract Numbers Mentally Using 1- and 2-Digit Numbers</p> <p>Finding Part or Whole Unknown</p> <p>Money - Making Combinations and Finding Change</p> <p>Comparison (difference, more, less, fewer)</p> <p>Measures - Estimation and Measure Using Different Scales</p>	<p>Statistics - Totalling and Comparing Amounts in Block Graphs, Pictograms, Tables and Tally Charts</p> <p>Written Addition Method</p> <p>Commutativity in Addition but not in Subtraction</p> <p>Written Subtraction Method</p> <p>Problem Solving with Addition and Subtraction in a Range of Contexts</p> <p>Time - Telling the Time: O'clock, Half Past, Quarter Past and Quarter To</p> <p>Time - Estimating, Ordering and Comparing Time</p> <p>Double and Halve One and Two-digit Numbers and Amounts of Money</p> <p>Times Tables - 2s, 5s and 10s. Patterns and Strategy (counting in 3s)</p> <p>Multiplication - Multiples and Repeated Addition</p> <p>Multiplication - Number of Groups, Group Size and Product</p> <p>Multiplication Problem Solving</p> <p>Division - Sharing and Grouping</p> <p>Division - Sharing and Grouping Problems including Remainders</p>	<p>Fractions - Finding Halves, Quarters and Thirds of Amounts</p> <p>Fractions - Finding Halves, Quarters and Thirds of Shapes</p> <p>Fractions - Finding Three-quarters of Shapes and Quantities</p> <p>Fractions - Equivalence</p> <p>Fractions - of Continuous Quantities</p> <p>Time - Telling the Time to the Nearest 5 Minutes</p> <p>Multiplication, Division and Fractions - Scaling</p> <p>Multiplication, Division and Fractions - Problem Solving</p> <p>Multiplication and Division - Equality and Balance</p> <p>Geometry - Properties of 2-D and 3-D Shape, Classifying and Sorting</p> <p>Geometry - Symmetry</p> <p>Mental Calculation Review</p> <p>Geometry - Sequencing</p> <p>Geometry - Rotation and Right Angles</p> <p>Place Value and Written Calculation Review</p>
<b>Year 3</b>	<p>Place Value and Regrouping</p> <p>Counting On and Back in Ones, Tens and Hundreds</p> <p>Estimation, Magnitude and Rounding</p> <p>Measures - Comparison, Estimation and Magnitude</p> <p>Mental Fluency - Addition</p> <p>Mental Fluency - Subtraction</p> <p>Fact Families and Applying the Inverse</p> <p>Written Addition</p> <p>Written Subtraction</p> <p>Problem Solving - Worded Problems</p> <p>Statistics - Interpreting Bar Charts and Tables</p> <p>Angles, Right Angles and Estimation</p> <p>Perpendicular and Parallel Lines, Vertical and Horizontal Lines</p> <p>2-D Shape - Properties and Drawing</p> <p>Perimeter Including Problem Solving Using Written and Mental Methods</p>	<p>Multiplication - 3, 4 and 8 Times Tables including Counting</p> <p>Division - 1, 2, 3, 5, 4 and 8 Times Tables</p> <p>Multiplication - Strategy, Associative and Distributive Laws</p> <p>Statistics - Pictograms and Scaled Bar Charts</p> <p>Multiplication and Division Worded Problems</p> <p>Fractions - Finding Fractions of Discrete and Continuous Quantities</p> <p>Ordering and Comparing Fractions</p> <p>Adding and Subtracting Fractions with the Same Denominators</p> <p>Fractions - Problem Solving with Unit and Non-Unit Fractions</p> <p>Multiplication - Multiplying Multiples of Ten</p> <p>Multiplication - Formal Written Multiplication</p>	<p>Division Problem Solving - Sharing and Grouping</p> <p>Division - Two and Three-Digit Numbers by One-Digit Numbers including Halving</p> <p>Multiplication, Division and Fractions - Scaling and Correspondence Problems</p> <p>Division - Long Division</p> <p>Time - Days, Weeks, Months, Years</p> <p>Time - Telling the Time (analogue and digital) and Estimation</p> <p>Time - Duration</p> <p>Securing the Four Operations with Whole Number including Problem Solving</p> <p>Place Value and Decimals - Ten Times Bigger and Ten Times Smaller</p> <p>Place Value and Decimals - Partitioning</p> <p>Place Value and Decimals - Estimation, Comparing and Rounding</p> <p>Measures - Measuring and Problem Solving</p> <p>3-D Shape - Building and Identifying Properties</p>
<b>Year 4</b>	<p>Place Value - Order and Compare Numbers Beyond 1000</p> <p>Rounding, Estimation and Magnitude</p> <p>Securing Addition and Subtraction Mental Fluency</p> <p>Securing Formal Written Addition and Subtraction Fluency</p> <p>Counting in Multiples of 6, 7, 9, 25 and 1000</p> <p>Multiplication and Division Facts (Times Tables)</p> <p>Factor Pairs, Integer Scaling and Correspondence Problems</p>	<p>Properties of Shape</p> <p>Symmetry</p> <p>Decimal Numbers</p> <p>Calculating With Decimals</p> <p>Measure - Money</p> <p>Problem Solving involving Decimals to Two Decimal Places</p> <p>Add and Subtract Fractions with the Same Denominator</p>	<p>Time - Read, Write Calculate and Convert Time on Analogue and Digital 12- and 24-Hour Clocks</p> <p>Statistics - Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures</p> <p>Roman Numerals to 100 and Zero</p> <p>Negative Numbers - Counting through Zero and Calculating in Context</p>

	<p>Problem Solving Including Measures to Apply Place Value, Mental Strategies and Arithmetic Laws</p> <p>Multiply and Divide a One or Two-digit Number by 10 and 100</p> <p>Measure - Conversion of Units</p> <p>Measures - Compare, Estimate and Calculate</p> <p>Discrete and Continuous Data (Time Graphs), Including Application of Scales and Division</p> <p>Perimeter</p>	<p>Finding Fractions of Quantities</p> <p>Fractions in the Context of Measure</p> <p>Equivalent Fractions, Ordering and Comparing</p> <p>Multiply Two and Three-digit Numbers by a One-digit Number</p> <p>Using a Formal Written Layout</p> <p>Divide Two and Three-digit Numbers by a One-digit Number</p> <p>Using a Formal Written Layout</p>	<p>Geometry - Angles</p> <p>Geometry - Properties of Triangles</p> <p>Geometry - Coordinates in the First Quadrant and Translations</p> <p>Geometry - Position and Direction, incorporating Angles and Plotting Points of a Shape</p> <p>Multiplication and Division Review</p> <p>Area</p> <p>Fractions Review</p> <p>Application and Problem Solving - Developing Operation Sense</p>
<b>Year 5</b>	<p>Place Value and Rounding of Large Numbers</p> <p>Interpret Negative Numbers</p> <p>Place Value of Numbers with up to Three Decimal Places</p> <p>Multiply and Divide by 10, 100 and 1,000</p> <p>Properties of Number - Multiples, Factors and Common Factors</p> <p>Prime and Composite Numbers</p> <p>Multiply and Divide Mentally</p> <p>Solve Problems Involving Knowledge of Key Facts</p> <p>Add and Subtract Using a Range of Strategies</p> <p>Add and Subtract Using Formal Written Methods</p> <p>Formal Written Method of Multiplication</p> <p>Formal Written Method of Short Division</p> <p>Equivalent Fractions</p> <p>Compare and Order Fractions</p> <p>Adding and Subtracting Fractions</p>	<p>Problem Solving - All Four Operations</p> <p>Multiply Fractions by Whole Numbers</p> <p>Fraction Problem Solving</p> <p>Measure - Converting Units of Measure</p> <p>Area</p> <p>Volume and Capacity</p> <p>Percentages</p> <p>Problem Solving - Percentages</p> <p>3-D Shapes from 2-D Representations</p> <p>Reflection and Translation</p> <p>Perimeter</p> <p>Estimate, Compare, Measure and Draw Angles</p> <p>Identify Unknown Angles</p>	<p>Formal Methods for Division and Multiplication in Increasingly Complex Problems</p> <p>Strategies for Multiplication and Division (Mental and Written)</p> <p>Solving Problems involving Scaling by Simple Fractions and Rates</p> <p>Conversion of Imperial and Metric Units of Measure</p> <p>Fractions, Decimals and Percentages Problem Solving</p> <p>Reading Timetables and Calculating with Time</p> <p>Solve Problems involving the Four Operations</p> <p>Distinguish between Regular and Irregular Polygons</p> <p>Use Properties of Rectangles</p> <p>Statistics - Solve Comparison, Sum and Difference Problems using Information in a Line Graph</p> <p>Statistics - Interpreting and Evaluating Information Presented in Charts and Tables</p> <p>Roman Numerals</p>
<b>Year 6</b>	<p>Place Value</p> <p>Multiply and Divide by 10, 100 and 1,000</p> <p>Choosing Effective Mental Calculation Strategies</p> <p>Problem Solving with Four Operations</p> <p>Application of Factors, Multiples and Primes</p> <p>Equivalent Fractions</p> <p>Comparing and Ordering Fractions</p> <p>Adding and Subtracting Fractions</p> <p>Fraction and Decimal Equivalents</p> <p>Fractions, Decimals and Percentages</p> <p>Calculating Percentages</p> <p>Formal Written Method of Multiplication</p> <p>Area of Parallelograms and Triangles</p> <p>Formal Written Method of Short Division</p> <p>Properties of Shape</p>	<p>Order of Operations and Algebra</p> <p>Formal Written Method for Long Division</p> <p>Exploring Relationships Between Perimeter and Area</p> <p>Recognise and Find Angles</p> <p>Reflection and Translation</p> <p>Multiplying Fractions</p> <p>Dividing Fractions</p> <p>Fraction Problem Solving</p> <p>Ratio and Proportion</p> <p>Volume</p> <p>Measures</p> <p>Statistics - Interpret Line Graphs and Pie Charts</p> <p>Algebra and Sequences</p>	<p>Statistics - Calculate and Interpret Mean Average</p> <p>Constructing Pie Charts</p> <p>SATs revision - Application of Previous Years' Learning</p> <p>Financial Maths and Enterprise</p>

