

# St Benedict's Catholic Primary School

## Curriculum Overview: Mathematics



With Jesus, we learn,  
love and laugh

	Autumn	Spring	Summer
Year 1	<p>Number and place value to 100, counting forwards. Use + = signs Number bonds to 20 (using objects and pictures) Know <math>\frac{1}{2}</math> and <math>\frac{1}{4}</math> Length, mass and capacity – practical problems Value of coins and notes Tell time to the hour</p>	<p>Number and place value to 100, incl, counting backwards. Counting in 2s, 5s and 10s Number bonds to 20 (using objects and pictures) Length, mass, capacity, time – measure Name simple 2D and 3D shapes</p>	<p>Number and place value to 100, incl, counting backwards. One step addition and subtraction problems (using objects and pictures) One step multiplication and division problems (using objects and pictures) Length, mass, capacity, time – measure and simple records Put events in order Tell time to the hour and half hour Position and movement incl. <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{3}{4}</math> turns</p>
Year 2	<p>Number and place value to 100 Count in 2s, 5s and 10s Addition and subtraction with 1-digit and 2-digit numbers (using objects and pictures) £ and p signs Making amounts of money Properties of simple 2D and 3D shapes Symmetry in a vertical line Simple pictograms, block diagrams and tables.</p>	<p>Number and place value to 100 incl. &lt; &gt; = signs Addition and subtraction problems with 2-digit numbers (using objects and pictures) Times Tables: 2, 5, 10 Odd and even numbers Multiplication and division (using objects and pictures) Know <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math>. Money – practical problems Find 2D shapes in 3D shapes Simple tally charts Understanding simple data</p>	<p>Count in 3s and 10s, forwards and backwards Addition and subtraction facts to 100 Measure length, height, mass, capacity and temperature Tell time in 5 minute intervals Patterns and sequences Describe position and movement incl. clockwise/ anti-clockwise</p>
Year 3	<p>Number and Place Value to 1000 Addition and Subtraction with 3-digit numbers (using pictures) Multiplication and division (with pictures) Times Tables: 3, 4 Measure in mm/cm/m Angles: right angles and bigger/smaller than a right angle Pictograms, Bar Graphs Understanding simple data</p>	<p>Number and Place Value to 1000 Addition and Subtraction with 3-digit numbers (column method) Times Tables: 3, 4, 8 Multiplication (grid method) Division (with pictures) Decimals: tenths Equivalent fractions Add and subtract fractions Perimeter of 2D shapes in cm and mm Money – add and subtract Draw 2D shapes Lines: horizontal/ vertical and parallel/ perpendicular</p>	<p>Number and Place Value to 1000 More complex addition and subtraction problems Times Tables: 3, 4, 8 Problems involving multiplication and division Measure in g/kg and ml/l Money – add and subtract Tell time to the minute Roman numerals to 12 12 and 24 hour clocks Make 3D shapes Simple tables Problems involving bar charts, pictograms and tables</p>
Year 4	<p>Number and place value to 10,000 Count in 25s, 1000s. Addition and Subtraction with 4-digit numbers (column</p>	<p>Negative numbers Rounding numbers to nearest 10, 100 or 1000. Addition and subtraction 2-step problems with up to 4-</p>	<p>Roman numerals to 100 Inverse to check addition and subtraction problems Times tables: all up to 12 x 12</p>

	<p>method)</p> <p>Times tables: all up to 12 x 12</p> <p>Multiply TU x U and HTU x U</p> <p>Decimals: tenths and hundredths</p> <p>Add and subtract fractions</p> <p>Convert between units of length and time</p>	<p>digit numbers</p> <p>Times tables: all up to 12 x 12</p> <p>Factor pairs</p> <p>Equivalent fractions</p> <p>Rounding decimal numbers</p> <p>Division involving decimal numbers</p> <p>Perimeter of shapes in cm and m</p> <p>Properties of 2D shapes</p> <p>Acute and obtuse angles</p> <p>Co-ordinates (1 quadrant)</p> <p>Translation of shapes</p> <p>Bar charts and time graphs</p>	<p>Problems involving multiplication and division</p> <p>Problems involving fractions and decimals</p> <p>Area of shapes in <math>\text{cm}^2</math></p> <p>Money – problem solving</p> <p>Symmetry in 2D shapes</p>
<b>Year 5</b>	<p>Number and place value to 1 million</p> <p>Negative numbers</p> <p>Addition and Subtraction with more than 4-digit numbers (column method)</p> <p>Prime Numbers and Prime Factors</p> <p>ThHTU x U</p> <p>Multiply and divide by 10, 100, 1000</p> <p>Square numbers and cube numbers</p> <p>Decimals: thousandths</p> <p>Rounding decimal numbers</p> <p>3D shapes from 2D nets</p> <p>Regular and irregular polygons</p> <p>Draw and measure angles</p>	<p>Addition and subtraction multi-step problems with numbers over 4-digits</p> <p>Long multiplication: ThHTU x TU</p> <p>Short division: ThHTU <math>\div</math> U</p> <p>Equivalent fractions</p> <p>Fractions to decimals and vice versa</p> <p>Mixed numbers and improper fractions</p> <p>Add and subtract fractions</p> <p>Multiply fractions</p> <p>Estimate volume</p> <p>Perimeter of composite shapes in cm/m</p> <p>Area in <math>\text{cm}^2/\text{m}^2</math></p> <p>Translation and reflection of shapes</p> <p>Line graphs</p>	<p>Roman numerals to 1000</p> <p>Addition and subtraction multi-step problems</p> <p>Multiples and factors</p> <p>Problems involving multiplication and division.</p> <p>Simple percentages</p> <p>Problems involving fractions, decimals and percentages</p> <p>Convert between units of length, mass and capacity</p> <p>Metric and imperial units of measure</p> <p>Measure – problem solving</p> <p>Tables including timetables</p>
<b>Year 6</b>	<p>Rounding of whole numbers</p> <p>Addition and Subtraction multi-step problems</p> <p>Common factors and common multiples</p> <p>Long multiplication: ThHTU x TU</p> <p>Long division: ThHTU <math>\div</math> TU</p> <p>Calculations involving + - x <math>\div</math></p> <p>Add and subtract fractions</p> <p>Multiply and divide pairs of fractions</p> <p>Multiply and divide decimals</p> <p>Algebra - algebraic equations</p> <p>Mean (average)</p>	<p>Number and place value to 10 million</p> <p>Negative numbers in context</p> <p>Addition and subtraction multi-step problems</p> <p>Problems involving + - x <math>\div</math></p> <p>Fractions to decimals and vice versa</p> <p>Multiply and divide decimals</p> <p>Simplify fractions</p> <p>Convert between fractions, decimals and percentages</p> <p>Problems involving Ratio and Proportion</p> <p>Algebra - simple formulae</p> <p>Volume of cubes and cuboids</p> <p>Areas of complex shapes</p> <p>Draw 2D shapes</p> <p>Make 3D shapes</p> <p>Calculate missing angles</p> <p>Co-ordinates (4 quadrants)</p>	<p>Multi-step problems involving + - x <math>\div</math></p> <p>Problems involving fractions, decimals and percentages</p> <p>Problems involving Ratio and Proportion</p> <p>Algebra – missing number problems</p> <p>Convert between units of length, mass volume and time</p> <p>Measure – problem solving</p> <p>Parts of a circle</p> <p>Problem solving – pie charts and line graphs</p>