
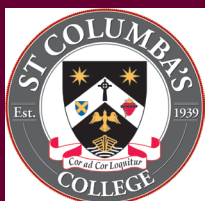


Maths Curriculum Map

	Michaelmas Term		Lent Term		Trinity Term	
<p>Reception</p> 	<p>Getting To Know You (match, sort, guess my rule, odd one out, compare amounts, compare size, mass, capacity, balance, make simple patterns, spot the mistake, what's the pattern?)</p> <p>Just Like Me! (match, sort, guess my rule, odd one out, compare amounts, compare size, mass, capacity, balance, make simple patterns, spot the mistake, what's the pattern?)</p>	<p>It's Me 1, 2, 3 (representing 1, 2, 3, subitise and count to 3, match number names to numerals and amounts, comparing 1, 2, 3, one more, one less, composition of 1, 2, 3, add and subtract within 3, how many inside, hidden objects, circles and triangles – recognise, build, describe, spatial awareness – positional language)</p> <p>Light And Dark (count on and back to 4 then 5, count and subitise sets of objects, match, one more/less, order, shapes with 4 sides, compare size, night and day order events, measure time)</p>	<p>Alive In 5! (understanding zero, comparing numbers to 5, composition of 4 and 5, add and subtract within 5, number bonds, comparing mass – use of language, compare capacity – use of language, balance scales)</p> <p>Growing 6, 7, 8 (count, subitise, represent, order and compare numbers 6, 7, 8, making pairs and noticing odd one out, combining two groups, part whole models, describe and compare length and height, order and sequence times of the day using correct vocabulary)</p>	<p>Building 9 And 10 (count, represent, subitise numbers to 10, compare and order numbers to 10, numbers bonds to 10, how many more..., name and explore similarities and differences between 3D shapes, explore and create complex patterns using repeats)</p> <p>Consolidation</p>	<p>Superhero To 20 And Beyond! (building numbers beyond 10, subitise, count, compose, sort, match, compare order, counting patterns beyond 10, how many is 100, estimate, compare, spatial reasoning – match, rotate, manipulate)</p> <p>First Then Now (adding more, taking away, 'how many have been added/taken away?', spatial reasoning – combining and separating shapes, triangles, stars and tangrams)</p>	<p>Find My Pattern (doubling, sharing and grouping, even and odd, spatial reasoning- replicating models, same/different, positional language)</p> <p>On The Move (problem solving and critical thinking, explore and investigate relationships between numbers and shapes, copy, continue and create repeating patterns and symmetrical constructions, spatial reasoning – maps and plans, mazes)</p> <p>Consolidation</p>

Maths Curriculum Map

Prep One



<p>Number: Place Value (within 10) <i>(sorting, counting on and back, representing, one more/less, compare and order, use > < =, ordinal numbers)</i></p> <p>Number: Addition and Subtraction (within 10) <i>(parts and wholes, number bonds, addition - together, more, bonds)</i></p>	<p>Number: Addition and Subtraction (within 10) <i>(subtraction – take away, counting back, difference, fact families, compare addition and subtraction facts < > =)</i></p> <p>Geometry: Shape <i>(recognise and name 3D and 2D shapes, sort, patterns)</i></p> <p>Number: Place Value (within 20) <i>(Count forward and back, Tens and Ones, compare and order)</i></p>	<p>Number: Addition and Subtraction (within 20) <i>(addition - count on, use number bonds, making 10, subtraction - not crossing and crossing tens, count on, related facts)</i></p> <p>Number: Place Value (within 50) <i>(Count on and back within 50, tens and ones, represent, compare, order)</i></p>	<p>Number: Place Value (within 50) (multiples of 2, 5, 10 included) <i>(Count on in 2s, 5s and 10s)</i></p> <p>Measurement: Length and Height <i>(Compare and measure lengths and heights, use a ruler, add and subtract length)</i></p> <p>Measurement: Weight and Volume <i>(measure and compare mass, mass and weight problems, measure and compare capacity and volume)</i></p>	<p>Number: Multiplication and Division (reinforce multiples of 2, 5, 10) <i>(Count in 2s, 5s, 10s, make equal groups and arrays, grouping and sharing, doubles)</i></p> <p>Number: Fractions <i>(Make and find wholes, halves and quarters incl. of quantities)</i></p> <p>Geometry: Position and Direction <i>(Describe turns and position)</i></p>	<p>Number: Place Value (within 100) <i>(counting forwards and backwards within 100, partitioning, ordering, comparing, more/less)</i></p> <p>Measurement: Money <i>(recognising coins and notes, counting in coins)</i></p> <p>Measurement: Time <i>(before, after, dates, time to the hour and to the half hour, writing time, comparing time)</i></p>
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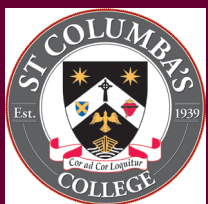
Prep Two



<p>Number: Place Value (count forwards and backwards within 20, 50 and 100, read, write, represent, order and compare numbers to 100, tens and ones partitioning, counting in 2s, 5s, 10s and 3s)</p> <p>Number: Addition and Subtraction (addition and subtraction fact families, compare number sentences, number bonds and related facts, 1/10 more less, add and subtract tens, 2 digit add 1 digit crossing tens, subtract 1 digit from 2 digit crossing tens, add and subtract 2 digits and 2 digits with and without exchange, adding 3 digits)</p>	<p>Measurement: Money (counting, comparing and selecting coins and notes, use £ and p notation, make the same amount, find the total, difference and change, money 2 step word problems)</p> <p>Number: Multiplication and Division (making equal groups, redistribute form unequal to equal groups, add equal groups, arrays)</p>	<p>Number: Multiplication and Division (recognise, make and add equal groups, using the x symbol, arrays, doubles, 2, 5 and 10 times tables, sharing and grouping, divide by 2, 5 and 10, odd and even numbers)</p> <p>Statistics (make, draw and interpret tally charts, pictograms and block graphs)</p>	<p>Geometry: Properties of Shape (recognise, make, sort and draw 2D shapes, count sides and vertices, vertical lines of symmetry, faces, edges and vertices on 3D shapes)</p> <p>Number: Fractions (equal parts, recognise and find halves, quarters, thirds, unit and non-unit fractions, equivalence between $\frac{1}{2}$ and $\frac{2}{4}$, find three quarters, count in fractions, problem solve with fractions)</p>	<p>Measurement: Length and Height (measure, compare, order, calculate and problem solve with lengths)</p> <p>Geometry: Position and Direction (describe position, movements and turns, give directions -left, right, up, down, forwards, backwards, clockwise, anti, full, half, quarter, three quarter turns, problem solve with position)</p>	<p>Measurement: Time (o'clock, half past, quarter to and past, time to five minutes, hours, days, find and compare durations of time)</p> <p>Measurement: Mass, Capacity and Temperature (compare and measure mass in kilograms and grams, measure and compare capacity and volume in litres and millimetres, four operations with mass and capacity, temperature)</p>
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Maths Curriculum Map

Prep Three



<p>Number: Place Value (read, write, represent, order and compare numbers to 1000, recognise the place value of each digit - hundreds, tens and ones and the relationship between HTO, number line to 100 and 1000, find 1, 10, 100 more or less, count on and back in 50s)</p> <p>Number: Addition and Subtraction (add and subtract multiples of 100, add and subtract 3 and 1 digit numbers not crossing and crossing 10s, add and subtract 3 and 2 digit numbers not crossing and crossing 10s and 100s, add two 3 digit numbers)</p>	<p>Number: Subtraction (subtract two 3 digit numbers with and without exchange, spot patterns, check and estimate answers to calculations)</p> <p>Number: Multiplication and Division (equal groups, revision of multiplication and division by 2, 5, 10, multiply and divide by 3, 4 and 8, including 3, 4 and 8 times tables)</p>	<p>Number: Multiplication and Division (compare statements using inequality symbols, using related calculations, multiply 2 digits by 1 digit with and without exchange, divide 2 digits by 1 digit without and with remainders, scaling – times as many - using bar models, work systematically to find all combinations)</p> <p>Measurement: Money (count and convert money pounds and pence, add and subtract money and give change)</p> <p>Statistics (tally charts, draw and interpret pictograms using symbols and keys, construct and interpret bar charts with different scales, interpret tables)</p>	<p>Measurement: Length and Perimeter (measure, compare, add and subtract lengths, equivalent lengths mm, cm, m, measure and calculate perimeter)</p> <p>Number: Fractions (revision of halves, quarters, thirds, unit, non-unit fractions, finding halves, quarters and thirds, equivalence of halves and quarters, count in fractions)</p>	<p>Number: Fractions (making the whole, tenths as fractions and decimals, fractions on a number line, fractions of a set of objects, equivalent fractions, compare, order, add and subtract fractions with the same denominators)</p> <p>Measurement: Time (o'clock, half past, quarter to and past, time to 5 minutes and 1 minute, am and pm, 24 hour clock, years, months, days, hours, finding and comparing durations, start and end times, measuring time in seconds, problem solving with time)</p>	<p>Geometry: Properties of Shape (turns and angles, right angles in shapes, compare angles, draw accurately, horizontal vertical, parallel and perpendicular, recognise and describe 2D and 3D shapes, make 3D shapes)</p> <p>Measurement: Mass and Capacity (measure, compare, add and subtract mass and capacity, revision of temperature)</p>
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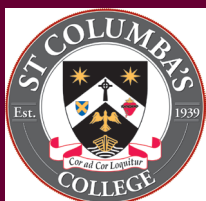
Prep Four



<p>Number: Place Value (round to the nearest 10, 100 and 1000, count in 1000s, read, write order and compare numbers to 10,000 and recognise the place value of each digit, partitioning numbers, find, 1, 10, 100 and 1000 more or less, count in 25s, count backwards through zero to include negative numbers, read Roman numerals to 100 I to C)</p> <p>Number: Addition and Subtraction (add and subtract 1s, 10s, 100s and 1000s, add and subtract 4 digit numbers with and without exchange, efficient subtraction – mental methods, estimate answers, checking strategies)</p>	<p>Measurement: Length and Perimeter (equivalent lengths mm, cm, m, km, add and subtract lengths, perimeter on a grid, perimeter of rectangles and rectilinear shapes)</p> <p>Number: Multiplication and Division (multiply and divide by 10 and 100, multiply by 1 and 0, divide by 1 and 0, multiply and divide by 3, 6, 9 and 7)</p>	<p>Number: Multiplication and Division (11 and 12 times tables, multiply 3 numbers, factor pairs, efficient multiplication – mental and written methods, multiply 2 and 3 digits by 1 digit, divide 2 and 3 digits by 1 digit using partitioning, solving correspondence problems)</p> <p>Measurement: Area (understand area, counting squares, making rectilinear shapes e.g. with the same area, comparing area)</p> <p>Number: Fractions (understand fractions in different representations, numerator, denominator, equivalent fractions, fractions greater than 1, count in fractions)</p>	<p>Number: Fractions (add and subtract fractions, calculate fractions of quantities, problem solving calculate quantities)</p> <p>Number: Decimals (recognise tenths and hundredths, tenths and hundreds as decimals, on a place value grid, on a number line, divide 1 and 2 digit numbers by 10 and 100)</p>	<p>Number: Decimals (use and apply numbers bonds to 10 and 100 to make a whole, write, compare, order and round decimals, fraction decimal equivalents - halves and quarters)</p> <p>Measurement: Money (pounds and pence, ordering and comparing money, four operations with money)</p> <p>Measurement: Time (hours, minutes and seconds, years, months, weeks and days, analogue to digital 12 and 24 hours)</p>	<p>Statistics (interpret charts, solve comparison, sum and difference problems using discrete data with a range of scales, line graphs - solve comparison, sum and difference problems using continuous data with a range of scales)</p> <p>Geometry: Properties of Shape (identify, compare and order angles – acute, obtuse, right, recognise, name and describe types of triangles and quadrilaterals, understand symmetry, find and identify lines of symmetry and complete a symmetrical figure – shapes and patterns)</p> <p>Geometry: Position and Direction (describe position using coordinates in the first quadrant, draw, move and describe movement on a grid – use grid lines, translations)</p>
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Maths Curriculum Map

Prep Five

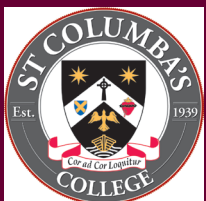


<p>Number: Place Value <i>(read, write, compare and order numbers to at least one million and determine the value of each digit, count forwards or backwards in steps of powers of 10 up to 1 000 000, round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000, interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, read Roman numerals to 1000 (M) and recognise years)</i></p> <p>Number: Addition and Subtraction <i>(add and subtract whole numbers with more than 4 digits, (column and mental methods), use rounding to</i></p>	<p>Number: Multiplication and Division <i>(multiples, factors, common factors, prime and composite (non-prime) numbers, prime factors, square and cube numbers, multiply and divide by 10, 100 and 1000)</i></p> <p>Measurement: Perimeter and Area <i>(measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres, calculate and compare the area of rectangles and compound shapes, using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes)</i></p>	<p>Number: Multiplication and Division <i>(multiply 4 digit numbers by a one- or two-digit number using a formal written method, including long multiplication, 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)</i></p> <p>Number: Fractions <i>(equivalent fractions, mixed numbers and improper fractions, compare and order fractions and mixed numbers, add and subtract fractions with denominators</i></p>	<p>Number: Fractions <i>(multiply fractions and mixed numbers by integers, calculate fractions of an amount, using fractions as operators, problem solving with fractions)</i></p> <p>Number: Decimals and Percentages <i>(read and write decimal numbers as fractions, 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 numbers with up to three decimal places, recognise per cent</i></p>	<p>Number: Decimals <i>(add and subtract decimals with the same and different numbers of decimal places with and without exchange, decimal sequences, multiply and divide decimals by 10, 100 and 1000)</i></p> <p>Geometry: Properties of Shape <i>(identify, name, estimate and compare acute, obtuse and reflex angles, measure and draw angles with a protractor, measure and draw lines accurately, calculate angles on a straight line and around a point, calculate lengths and angles in shapes, distinguish between regular and irregular polygons based on reasoning about equal sides and angles, reasoning about 3D shapes)</i></p>	<p>Geometry: Position and Direction <i>(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, use coordinates)</i></p> <p>Measurement: Converting units <i>(convert between different units of metric measure (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 - inches, pounds and pints, solve problems involving</i></p>
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	<p><i>check answers, determine, levels of accuracy, solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why)</i></p> <p>Statistics <i>(solve comparison, sum and difference problems in a line graph, draw line graphs, complete, read and interpret information in tables, including timetables)</i></p>		<p><i>which are multiples of the same number)</i></p>	<p><i>symbol (%), understand per cent relates to 'number of parts per hundred', write percentages as a decimal and fraction with denominator 100, solve problems using percentage and decimal equivalents)</i></p>		<p><i>converting between units of time, use and interpret timetables)</i></p> <p>Measurement: Volume <i>(understand volume, compare and estimate volume and capacity)</i></p>
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Maths Curriculum Map

Prep Six



<p>Number: Place Value <i>(read, write, compare and order numbers to 10 million, round any number, negative numbers in context and more abstract)</i></p> <p>Number: Addition, Subtraction Multiplication Division <i>(add and subtract integers, multiply 4 digit by 2 digit numbers using formal long method, division using short and long formal methods, interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context, factors, multiples, primes, squares, cubes, order of operations – BIDMAS, mental calculations, estimation and</i></p>	<p>Number: Fractions <i>(simplify, number line, compare and order. Add, subtract incl. mixed numbers, multiply by integers and fractions, divide by integers, fractions of amounts)</i></p> <p>Geometry: Position and Direction <i>(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)</i></p>	<p>Number: Decimals <i>(3 decimal places, multiply and divide by 10, 100, 1000 and integers, convert and find equivalent fractions and decimals)</i></p> <p>Number: Percentages <i>(Percentages, equivalent FDP, order FPD, percentages of amounts)</i></p> <p>Number: Algebra <i>(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)</i></p>	<p>Measurement: Converting units <i>(convert and calculate with metric measures, miles and kilometres, imperial measures)</i></p> <p>Measurement: Perimeter, Area and Volume <i>(Area and perimeter of shapes incl. triangles and parallelograms, calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³))</i></p> <p>Number: Ratio <i>(ratio and fractions, calculating ratio, scale factors, ratio and proportion problems)</i></p>	<p>Statistics <i>(Line graphs, circles, pie charts and percentages, read, interpret and draw pie charts, mean average)</i></p> <p>Geometry: Properties of Shape <i>(measure with protractors, angles on a straight line, around a point, vertically opposite, angles in triangles, special quadrilaterals and polygons, illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius, draw shapes and 3D shapes and nets accurately)</i></p>	<p>Consolidation and Themed projects, practical maths, puzzles, problem solving</p>
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	<i>reason from known facts)</i>					
	Throughout all year groups pupils will develop fluency with counting and calculating with numbers (mentally and using written methods of calculation) as well as recall of number bonds and times table facts. They will use mathematical language and symbols, reason and solve problems in a logical / methodical way and investigate patterns and relationships.					