



Term	Autumn	Spring	Summer
Nursery	<p>Numerical Pattern / Number:</p> <ul style="list-style-type: none"> Begin to compare quantities ... <i>group, lots, more, same, less</i> <ul style="list-style-type: none"> Sort, match and label groups Find the group with more / the same / less Compare sets of identical objects, then alter one variable e.g. colour/ size, and know the number remains constant. Notice, identify and talk about patterns around them <ul style="list-style-type: none"> Clothing, Autumn – natural resources Begin to copy / continue and talk about a pattern – ABAB <ul style="list-style-type: none"> Patterns with objects / actions ...<i>pattern</i> Begin to recite numbers to 5 in correct order Explore 1:1 correspondence Heuristic play free exploration Begin to understand that the last number reached when counting a small set of objects tells you how many there are in total (cardinal number) Begin to say one number for each item to 3 ...<i>count</i> <ul style="list-style-type: none"> Join in with number rhymes / songs with props & actions Use some number names in play <p>Shape, Space & Measure:</p> <ul style="list-style-type: none"> Begin to select shapes for appropriate tasks ...<i>shape</i> <ul style="list-style-type: none"> Show interest in shapes in the environment Manipulate and turn shapes Begin to talk about shapes ... <i>circle, triangle, rectangle, square round, pointy, spotty, stripy</i> Make comparisons between objects using appropriate vocabulary Size ... <i>big, small</i> Understand positional language within daily routine ... <i>in, out, on</i> Begin to understand some language of time within the daily routine ... <i>next, later, after, night time</i> 	<p>Numerical Pattern / Number:</p> <ul style="list-style-type: none"> Sort and match objects accordingly e.g. <i>size / shape</i> Begin to compare quantities using ... <i>more than, fewer than</i> Name and talk about patterns Continue and talk about a pattern – ABAB Recite numbers to 5 Join in with number rhymes to 5 using props and fingers Use fingers to represent numbers with increasing accuracy Use some number names in play with some accuracy Fast recognition of objects up to 1 and sometimes 2 – subitising Begin to count up to sets of 5 objects (1:1 correspondence) Begin to experiment with their own symbols and marks as well as numerals <p>Shape, Space & Measure:</p> <ul style="list-style-type: none"> Select shapes appropriately in a range of contexts Begin to combine shapes to make new ones Talk about shapes Autumn words plus <i>sides, corners, straight, line, bend, curve</i> Spatial awareness: <ul style="list-style-type: none"> Begin to experience different viewpoints e.g. <i>in context of transport topic</i> Understand positional language ...autumn words + <i>under, behind</i> Describe a familiar route. Begin to discuss routes and locations using words like <i>in front of, behind</i> Begin to make comparisons between objects using appropriate vocabulary ...<i>empty, full, more, lots, bigger, smaller</i> Begin to use some language of time within the daily routine Begin to describe a familiar route Begin to describe a sequence of events ... <i>now, next, first</i> <p><i>See also UW: Past and Present – Chronology</i></p>	<p>Numerical Pattern / Number:</p> <ul style="list-style-type: none"> Talk about and identify patterns around them. Extend and create ABAB patterns Notice and correct an error in a repeating pattern. Compare quantities using language: '<i>more than</i>', '<i>fewer than</i>' Recite numbers past 5 Fast recognition of up to 3 objects - subitising Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts up to 5 Experiment with own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5 <p>Shape, Space & Measure:</p> <ul style="list-style-type: none"> Talk about and explore 2D and 3D shapes ...<i>cube, cylinder, faces</i> Understand position through words Autumn and Spring words plus <i>top, bottom</i> Spatial awareness: <ul style="list-style-type: none"> Experience different viewpoints e.g. <i>in context of gardens</i> Describe a familiar route. Discuss routes and locations using words like <i>in front of, behind</i> Make comparisons between objects relating to size, length, weight and capacity Spring words + <i>long, short, tall</i> Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. Combine shapes to make new ones Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' <p><i>See also UW: Past & Present - Chronology</i></p>



Term	Autumn	Spring	Summer
Reception	<p>Number:</p> <ul style="list-style-type: none"> Continue, copy and create repeating patterns ...<i>pattern</i> <ul style="list-style-type: none"> Continue an ABC/ABB/ABBC pattern Copy an ABC/ABB/ABBC pattern Make their own ABC/ABB/ABBC patterns Identify the unit of repeat in a pattern <i>unit of repeat</i> Continue a pattern which ends mid-unit of repeat...<i>continue</i> Compare numbers. ...<i>more, less, greater, fewer</i> Count objects, actions and sounds. ...<i>count</i> Subitise up to 5 Explore the composition of numbers to 5 <ul style="list-style-type: none"> Part-whole: identify smaller numbers within a number (conceptual subitising) ...<i>total, altogether, makes, equals</i> Inverse operations (understand that we can partition a number of things into two groups, and to recognise that those groups can be recombined to make the same total) ...<i>set, group, part, whole, total</i> Understand that a number can be partitioned into different pairs of numbers (number bonds up to 5) Link the number symbol (numeral) with its cardinal number value. Begin to count beyond ten Begin to count on and back from a given number Solve real world mathematical problems with numbers up to 5 <p>Numerical patterns:</p> <ul style="list-style-type: none"> Begin to describe properties of 2D and 3D shapes. ...<i>circle, square, rectangle, triangle, oval, hexagon, semi-circle, sides, corners, cube, cuboid, cylinder, faces, vertices, edges</i> Begin to compare length, weight and capacity ...<i>length, height, weight</i> <ul style="list-style-type: none"> Recognise attributes, eg. use language of weight, length, height or capacity ... <i>heavy / light, short/tall, long large, thick, thin, wide, narrow</i> Compare and begin to order 2-3 items by length, weight, height and capacity e.g. <i>It is taller / shorter than... taller, tallest, shorter, shortest, longer, longest, heavier, heaviest</i> Begin to estimate and predict using measurement... <i>some, less, a bit, all, most, both, few, enough, half, whole</i> 	<p>Number:</p> <ul style="list-style-type: none"> Continue, copy and create repeating patterns <ul style="list-style-type: none"> Identify errors in an ABC/ABB/ABBC pattern. Begin to symbolise their patterns and the unit of repeat. ...<i>pattern, draw, unit of repeat</i> Make a pattern which continues around a circle. Count beyond ten <ul style="list-style-type: none"> count on and back from a given number Understand the 'one more than/one less than' relationship between consecutive numbers <ul style="list-style-type: none"> Compare numbers that are far apart, near to and next to each other. ...<i>more, less, far apart, close to, next to</i> Use "more" and "fewer" to explain unfair sharing...<i>more, less, fewer, fair, unfair, same, different</i> Explore the composition of numbers to 10 <ul style="list-style-type: none"> Automatically recall number bonds for numbers 0–10. Understand that a number can be partitioned into different pairs of numbers (number bonds to 10) Recognises the relationship between size and number of units ...<i>smaller, bigger, more, less, fewer</i> Understand that a number can be partitioned into more than two numbers. Solve problems using their knowledge of number bonds to 5 and begin to solve problems using number bonds to 10 <p>Numerical patterns:</p> <ul style="list-style-type: none"> Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Describe properties of 2D and 3D shapes. ... <i>plus cone, pyramid, sphere</i> Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compare length, weight and capacity <ul style="list-style-type: none"> Order 2-3 items by length, weight, height or capacity Estimate / predict using measurement language Begin to use non-standard units to compare things...<i>measure</i> Begin to use time to sequence events. ...<i>first, second, third, then, next, after, later, before</i> Begin to use tools to measure short lengths of time 	<p>Number:</p> <ul style="list-style-type: none"> Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5 confidently Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. ...<i>group, set, part, whole, double</i> Solve problems using their knowledge of number bonds to 5/10. <p>Numerical patterns:</p> <ul style="list-style-type: none"> Verbally count beyond 20, recognising the pattern of the counting system Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. ...<i>same as, equal to, more than, greater than, less than, fewer than</i> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally ...<i>odd, even, double, half, fair, unfair, equal, unequal, greater, more, less, fewer</i>



	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1	Place Value (within 10): <ul style="list-style-type: none"> • Sorting and counting objects • Represent objects, numbers as words, count on, 1 more • Count backwards within 10, 1 less, compare groups by matching • Fewer/more/same, less than/greater than/equal to, compare numbers • Order objects and numbers, the number line Addition and Subtraction <ul style="list-style-type: none"> • Parts and wholes, number sentences, fact families • Number bonds to 10 	Addition and subtraction: <ul style="list-style-type: none"> • Addition • Find a part, subtraction, fact families • Subtraction-take away • Subtraction on a number line, add and subtract 1 or 2 	Place Value (within 20): <ul style="list-style-type: none"> • Count within 20, understand 10-19 • Understand 20, 1 more/less, number line to 20 • Estimate on number line, Compare and order numbers to 20 Addition and subtraction: <ul style="list-style-type: none"> • Adding and using number bonds • Doubles, subtract ones • Subtraction • Odd and even 	Place Value (within 50): <ul style="list-style-type: none"> • Counting 20-50, groups of tens • Partitioning, number line to 50, 1 more/1 less Measurement - Length and Height: <p>Compare and measure length and height, using cm</p> Mass and Volume <ul style="list-style-type: none"> • Heavier and lighter, measure and compare mass • Full and empty, volume and capacity 	Multiplication and division: <ul style="list-style-type: none"> • Count in 2s, 5s, 10s • Recognise equal groups and make arrays • Doubles, equal groups - grouping and sharing Fractions: <ul style="list-style-type: none"> • Recognising and working with halves • Recognising and working with quarters 	Geometry - Position and direction: <ul style="list-style-type: none"> • Describing turns and position - L, R, forwards, back, above, below Place Value (to 100): <ul style="list-style-type: none"> • Count 50-100, tens and ones, number line to 100 1 more, 1 less, comparing numbers Money: <ul style="list-style-type: none"> • Unitising, recognise coins and notes, count in coins Time: <ul style="list-style-type: none"> • Before and after, days, weeks, hours/mins/secs • Tell time to the hour, to half hour

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	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 2	<p>Place Value:</p> <ul style="list-style-type: none">Numbers to 20Count to 100Tens/onesPlace Value chartPartition numbers to 100, writing numbers to 100Number linesComparing and ordering numbers, count in 2s, 5s, 10, 3s <p>Addition and subtraction:</p> <ul style="list-style-type: none">Number bonds and fact familiesAddingSubtract across a 10, from a 10, from 2-digit numbers	<p>Addition and subtraction:</p> <ul style="list-style-type: none">10 more/less, adding two 2-digit numbersSubtract two 2-digit numbersNumber sentences and number problems <p>Shape:</p> <ul style="list-style-type: none">2D and 3D shapes, sides and vertices.Draw 2DLines of symmetrySort 2D shapesExploring 3D shapes	<p>Money:</p> <ul style="list-style-type: none">Count money in £ & p, choosing coins to make amountsComparing amounts, make money, find change <p>Multiplication and division:</p> <ul style="list-style-type: none">Recognising equal groupsMultiplication and arraysGrouping, sharing, 2x tables10 x and 5x tablesOdd and even	<p>Measurement - Length /Height:</p> <ul style="list-style-type: none">Measure in centimetres and metresComparing and ordering lengths and heights <p>Mass, Capacity and temperature:</p> <ul style="list-style-type: none">Compare mass, grams and kilograms. Practical learning and measuring4 operations with mass, volume and capacity, measure in mm – practicalMeasure in litres, Capacity and volumeTemperature	<p>Fractions:</p> <ul style="list-style-type: none">Parts/whole, equal/unequal, halvesQuarters and thirdsWholes, unit and non-unit fractions, equivalenceThree quarters, counting in fractions to a whole <p>Time:</p> <ul style="list-style-type: none">O'clock, half past, quarter past, quarter to, Tell the time 'past'	<p>Time:</p> <ul style="list-style-type: none">Tell time to the hour, to 5 mins, mins in hours, hours in days <p>Statistics</p> <ul style="list-style-type: none">Tally charts, tables, block chartsPictograms <p>Position and Direction:</p> <ul style="list-style-type: none">Position, movement, turnsDescribing movements/turns, shape patterns with turns

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	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 3	<p>Place Value:</p> <ul style="list-style-type: none">• Understand place value to 100• Place value to 1000, 1,10,100 more or less• Number lines, compare and order numbers <p>Addition and subtraction:</p> <ul style="list-style-type: none">• Applying number bonds, add and subtract 1s,10s, 100s• Add and subtract when crossing 10s and 100s• Adding two numbers, no exchanges, with exchanges• Subtract 2 numbers, add and subtract 2/3-digit numbers	<p>Addition and subtraction:</p> <ul style="list-style-type: none">• Complements to 100• Estimate• Inverse <p>Multiplication and division:</p> <ul style="list-style-type: none">• Arrays, multiples of 2, 5 and 10. Sharing and grouping• Multiply and divide by 3 and 4• Multiply and divide by 4 and 8	<p>Multiplication and division:</p> <ul style="list-style-type: none">• Multiples of 10, multiply 2 by 1 no exchange• Multiply with exchange, link $\times$ and $\div$, divide no exchange, with exchange• Divide with remainders, scaling, how many ways <p>Length and Perimeter:</p> <ul style="list-style-type: none">• Measure in mm and cm• Equivalent lengths, m cm and mm• Perimeter	<p>Fractions:</p> <ul style="list-style-type: none">• Unit and non-unit fractions, what is a whole?• Fractions on number lines and bar models <p>Mass and Capacity:</p> <ul style="list-style-type: none">• Use scales, practical lesson, measure mass• Equivalent masses, compare, add and subtract masses.• Capacity and volume	<p>Fractions:</p> <ul style="list-style-type: none">• Add and subtract fractions, partitioning the whole• Unit fractions of objects, non-unit, reasoning <p>Money:</p> <ul style="list-style-type: none">• Pounds and pence, converting, add and subtract, change• Roman numerals to 12, tell time to 5 mins, to the minute	<p>Time:</p> <ul style="list-style-type: none">• Digital time• am and pm• years, months, days• Hours and minutes• Units of time• Word problems <p>Shape:</p> <ul style="list-style-type: none">• Angles• Horizontal and vertical• Parallel and perpendicular• 2D and 3D shapes• Polygons <p>Statistics:</p> <ul style="list-style-type: none">• Pictograms and bar charts• Collect and represent data• Two-way tables

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	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 4	<p>Place Value:</p> <ul style="list-style-type: none">Representing, partitioning and understanding numbers to 1000Representing, partitioning and understanding numbers to 10,000Numbers to 10,000, comparing and orderingRounding to the nearest 10,100,1000 <p>Addition and subtraction:</p> <ul style="list-style-type: none">Addition without exchanges, with exchanges, subtraction introSubtracting with exchanges, estimating and efficiency <p>Measurement:</p> <ul style="list-style-type: none">What is area?Calculating area by counting squares	<p>Rounding:</p> <ul style="list-style-type: none">Rounding to the nearest 10,100,1000Fluency and reasoning around round <p>Addition and subtraction:</p> <ul style="list-style-type: none">Addition and subtraction with exchangesFluency and reasoning focus within addition and subtraction <p>Multiplication and division:</p> <ul style="list-style-type: none">Multiples of 3, 6, 9Multiples of 7,11,12Multiply by 1 and 0Divide by 1 and itselfMultiply 3 numbers	<p>Multiplication and division:</p> <ul style="list-style-type: none">Factor pairs, multiply by 10,100Divide by 10,100, related factsMultiply 2 and 3 digit numbers by 1 digitDivide 2 and 3 digit numbers by 1 digit <p>Perimeter and Length:</p> <ul style="list-style-type: none">km and mPerimeter of rectangle and rectilinearPerimeter of rectilinear shapesPolygons	<p>Fractions:</p> <ul style="list-style-type: none">Understanding a whole, mixed numbersImproper fractions, converting, equivalent fractionsAdding and subtracting fraction <p>Decimals:</p> <ul style="list-style-type: none">Hundredths, dividing 2-digit numbers by 10, 100	<p>Decimals:</p> <ul style="list-style-type: none">Make a whole with tenths, hundredths, partitioning decimalsHalves, quarters, compare and order <p>Money:</p> <ul style="list-style-type: none">Money in decimals, £ and p, comparing amounts <p>Time:</p> <ul style="list-style-type: none">Time measures, analogue and digital clocks24 hour clockConverting between 12 and 24 hour clock	<p>Shape:</p> <ul style="list-style-type: none">Understanding angles, triangles, quadrilateralsPolygons, lines of symmetry <p>Statistics:</p> <ul style="list-style-type: none">Charts and line graphs <p>Position and direction:</p> <ul style="list-style-type: none">Coordinates and translation

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	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 5	Place Value: <ul style="list-style-type: none">• Place value of numbers up to 1,000,000• Place value within 1 million• Squared and cubed numbers• Partitioning,• Compare and order numbers• Roman numerals• Rounding	Fractions: <ul style="list-style-type: none">• Improper fractions and mixed numbers• Comparing Multiplication and division: <ul style="list-style-type: none">• Written multiplication• Division• Solve multiplication and division problems Statistics: <ul style="list-style-type: none">• Line graphs• Tables• Timetables	Fractions: <ul style="list-style-type: none">• Adding fractions• Subtracting fractions Multiplication and division: <ul style="list-style-type: none">• Written methods Fractions: <ul style="list-style-type: none">• Multiplying fractions Decimals and percentages: <ul style="list-style-type: none">• Decimals,• Fraction, decimal, percentage equivalence	Decimals and percentages: <ul style="list-style-type: none">• Thousandths• Compare and order decimals• Round decimals Percentages Perimeter and area: <ul style="list-style-type: none">• Perimeter-rectangles, rectilinear, polygons• Area Volume: <ul style="list-style-type: none">• Cubic centimetres• Estimating Fractions: <ul style="list-style-type: none">• Fractions of amounts	Shape: <ul style="list-style-type: none">• Understanding angles, measuring angles• Polygons• 3D shapes Geometry: <ul style="list-style-type: none">• Coordinates• Translation• Reflections• Lines of symmetry Decimals: <ul style="list-style-type: none">• Adding and subtracting decimals	Decimals: <ul style="list-style-type: none">• Decimal addition and subtraction• Efficient strategies• Multiply and divide decimals Negative Numbers: <ul style="list-style-type: none">• Count through zero• Understand negative numbers Measurement: <ul style="list-style-type: none">• Convert units of measure• Time conversions• Timetables

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Year 6	<p>Place Value:</p> <ul style="list-style-type: none">• Place value of numbers and powers of 10• Comparing and ordering numbers.• Rounding• Negative numbers <p>Addition, subtraction, multiplication and division:</p> <ul style="list-style-type: none">• Addition and subtraction• Multiples, factors• Primes and cube numbers• Multiplication• Short and long division• Problem solving and multi-step problems	<p>Fractions:</p> <ul style="list-style-type: none">• Equivalence in fractions• Comparing and ordering fractions• Adding and subtracting fractions• Multiplying and dividing fractions• Fractions of amounts <p>Measurement:</p> <ul style="list-style-type: none">• Converting units	<p>Ratio:</p> <ul style="list-style-type: none">• Introduction to ratio• Symbol and fractions link• Problem solving <p>Algebra:</p> <ul style="list-style-type: none">• Substitution• Formulae• Solving equations and using algebra in problems <p>Decimals:</p> <ul style="list-style-type: none">• Decimal place value• Rounding• Adding and subtracting decimals	<p>Decimals:</p> <ul style="list-style-type: none">• Multiply and divide by 10,100, 1000 <p>Fractions, decimals and percentages:</p> <ul style="list-style-type: none">• Equivalents, Percentages• Converting between fractions, decimals and percentages• Ordering fractions, decimals and percentages• Percentages of amounts <p>Area, perimeter and volume:</p> <ul style="list-style-type: none">• Perimeter• Area• Area of triangles• Area of triangles and parallelograms• Volume <p>Statistics:</p> <ul style="list-style-type: none">• Line graphs• Pie charts• Mean	<p>Shape:</p> <ul style="list-style-type: none">• Measuring angles, vertically opposite angles, angles in a triangle• Angles in quadrilaterals, polygons, circles• Nets of 3D shapes <p>Geometry:</p> <ul style="list-style-type: none">• Coordinates• Translation and reflection	<p>Mixed Mathematics:</p> <p>Themed, project-based problem solving linked to real-life maths in different contexts.</p> <p>Mathematical Group challenges.</p>

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