



Mathematics National Curriculum Overview

	Autumn	Spring	Summer
Nursery	<ul style="list-style-type: none"> • Numbers to 3 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Develop fast recognition of up to 3 items without having to count them individually (subitising) • Recite numbers past 5 • Begin to say one number name for each item up to 5 • Experiment with their own symbols and marks for numerals • Talk about and explore 2D and 3D shapes using mathematical language 'flat' 'sides' 'corners' 'straight' 'round' • Select shapes appropriately for a task. • Combine shapes to make new ones, an arch, a bigger triangle etc. 	<ul style="list-style-type: none"> • Number 4 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Know that the last number reached when counting a small set of objects tells you how many there are in principle (cardinal principle) • Solve real world problems with numbers up to 5. • Talk about and identify the patterns around them. • Extend and create ABAB patterns • Notice and correct an error in repeating patterns. 	<ul style="list-style-type: none"> • Number 5 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Show finger numbers up to 5 • Link numerals and amounts up to five. • Compare quantities using language 'more than' and 'fewer than' . • Make comparisons with objects relating to size, weight, length and capacity • Understand position through words alone • Discuss routes and locations using words such as 'in front' and 'behind' • Begin to describe a sequence of events using 'first' 'then'
Reception	<ul style="list-style-type: none"> • Numbers to 3 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Number 4 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Number 5 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Begin to count beyond 5 • Begin to recognise numerals for numbers to 5. 	<ul style="list-style-type: none"> • Number 5 Perceptual Subitising, Conceptual Subitising, Cardinality, Ordinality and Counting, Composition and Comparison. • Continue to count beyond 5 • Experience patterns which show a small group and 1 more. • Explore symmetrical patterns in which each side is a symmetrical pattern linking this to doubles. • Develop a range of object counting skills using a range of strategies. 	<ul style="list-style-type: none"> • Continue to practise increasingly familiar subitising arrangements, including those which expose '1 more' or 'doubles' patterns • Use subitising skills to enable them to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number • Subitise structured and unstructured patterns, including those which show



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	<ul style="list-style-type: none"> Select Rotate and manipulate shapes to develop reasoning skills Compose and Decompose shapes so children will recognise that shapes have different shapes within them just as numbers do. 	<ul style="list-style-type: none"> Explore the composition of odd and even numbers. Begin to explore the composition of numbers beyond 5 as 5 and a bit structure. Practise recalling missing or hidden parts for five Continue to compare sets. Explore ways of making equal or unequal sets. Continue Copy and create repeating patterns. 	<p>numbers within 10, in relation to 5 and 10</p> <ul style="list-style-type: none"> Be encouraged to identify when it is appropriate to count and when groups can be subitised. continue to develop verbal counting to 20 and beyond, including counting from different starting numbers continue to develop confidence and accuracy in both verbal and object counting. Consolidate what they have learned by working in a variety of concepts and with different numbers. Compare length, Weight and Capacity
Year 1	<ul style="list-style-type: none"> Comparison of quantities and Part Whole relationships. Numbers 0-5 Recognise compose, decompose and manipulate 2D and 3D shapes. Numbers 0 to 10 Additive structures 	<ul style="list-style-type: none"> Addition and Subtraction facts within 10 Numbers 0 to 20 (including addition facts) Composition of numbers multiples of 10 to 100 Composition of numbers to 100 	<ul style="list-style-type: none"> Unitising and coin recognition Multiplication and Division Position and direction Time Fractions
Year 2	<ul style="list-style-type: none"> Numbers 10 to 100 Calculations within 20 Fluently add and subtract within 10 Addition and subtraction of two-digit numbers (1) Introduction to multiplication Introduction to division 	<ul style="list-style-type: none"> Shape Addition and subtraction of two-digit numbers (2) Multiplication and Division doubling halving quotative and partitive division Measure Capacity, Volume, Mass Column addition Money 	<ul style="list-style-type: none"> Fractions Time Position and Direction Column addition Multiplication and Division doubling halving quotative and partitive division Measure Capacity, Volume, Mass



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Year 3	<ul style="list-style-type: none"> • Adding and Subtracting across 10 • Numbers to 1000 • Compare length mass and capacity • Measure Length mm, cm and m (convert) 	<ul style="list-style-type: none"> • Time • Manipulating the additive relationship and securing mental calculations • Column addition • 2, 4, 8 times tables • Column subtraction 	<ul style="list-style-type: none"> • Unit Fractions • Non-Unit Fractions • Parallel and Perpendicular sides in Polygons • Right angles • Convert money
Year 4	<ul style="list-style-type: none"> • Review of column addition and subtraction • Numbers to 10,000 • Perimeter and area • 3, 6, 9 times tables • 7 times table • Understanding and Manipulating Multiplicative relationships 	<ul style="list-style-type: none"> • Time • Co-ordinates • Review of Fractions • Quantity of amount of fractions • Fractions greater than 1 • Decimals 	<ul style="list-style-type: none"> • <u>Symmetry</u> in 2D shapes • Division with remainders. • Add and Subtract with money (give change) • Angles
Year 5	<ul style="list-style-type: none"> • Decimal Fractions • Money • Negative Numbers • Short Multiplication and Short Division 	<ul style="list-style-type: none"> • Area and Scaling • Factors, Multiples and Primes • 	<ul style="list-style-type: none"> • Long Multiplication (Multiply 2 digits, 3 digits and 4 digits by 2 digits) • Calculating with Decimal Fractions • Percentages • Converting Units • Angles / shape
Year 6	<ul style="list-style-type: none"> • Calculating using knowledge of Structures • Multiples of 1,000 • Numbers up to 10,000,000 • Draw Compose and Decompose shape • Angles • Order of Operations • Multiplication and Division • Fractions and Percentages 	<ul style="list-style-type: none"> • Multiplication and Division • Position and Direction • Fractions and Percentages • Statistics • Ratio and Proportion • Calculating using Knowledge of structures (2) • Solving problems with two unknowns • Mean average 	<ul style="list-style-type: none"> • SATS • Consolidation • Statistics • Ratio and Proportion • Calculating using Knowledge of structures (2) • Solving problems with two unknowns • Mean average • Order of Operations



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