Mathematics Curriculum Overview

	Autumn	Spring	Summer
Nursery	- 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. - Sorting objects with a given variable - Deciding their own variable for sorting - Say what objects do and don't belong in a group	- 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 (cardial 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.	- 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	- 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.	- 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.	- 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

	• Begin to count beyond 5 • Begin to recognise numerals for numbers to 5. • Select Rotate and manipulate shapes to develop reasoning skills • Compose and Decompose shapes so children will recognise that shapes have different shapes with in them just as numbers do.	• 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. • 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.	• Subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 • 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	• 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	• 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	• Unitising and coin recognition • Multiplication and Division • Position and direction • Time • Fractions
Year 2	• Numbers 10 to 100 • Calculations within 20 • Fluently add and subtract within 10 • Addition and subtraction of two-digit numbers (1) • Introduction to multiplication	• Shape • Addition and subtraction of two-digit numbers (2) • Multiplication and Division doubling halving quotative and partitive division • Measure Capacity, Volume, Mass	• Fractions • Time • Position and Direction • Multiplication and Division doubling halving quotative and partitive division

	• Introduction to division	• Column addition	• Money
Year 3	• Adding and Subtracting across 10 • Numbers to 1000 • Compare length mass and capacity • Measure Length mm, cm and m (convert) *** = already WRH units/ would benefit from change	• Time • Manipulating the additive relationship and securing mental calculations • Column addition • 2, 4, 8 times tables • Column subtraction	• Unit Fractions • Non-Unit Fractions • Parallel and Perpendicular sides in Polygons • Right angles • Convert money
Year 4	• 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	• Time • Co-ordinates • Review of Fractions • Quantity of amount of fractions • Fractions greater than 1 • Decimals	• Symmetry in 2D shapes • Division with remainders. • Add and Subtract with money (give change) • Angles
Year 5	• Decimal Fractions • Money • Negative Numbers • Short Multiplication and Short Division	• Area and Scaling • Factors, Multiples and Primes • Long Multiplication (Multiply 2digits, 3 digits and 4 digits by 2 digits) • Calculating with Decimal Fractions	• Calculating with Decimal Fractions • Percentages • Converting Units • Angles / shape
Year 6	• 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 • Position and Direction • Fractions and Percentages • Statistics • Ratio and Proportion	• SATS • Consolidation • Statistics • Ratio and Proportion • Calculating using Knowledge of structures (2)

	- Multiplication and Division - Fractions and Percentages	- Calculating using Knowledge of structures (2) - Solving problems with two unknowns - Mean average	- Solving problems with two unknowns - Mean average - Order of Operations