

EYFS SPECIFIC AREA: MATHEMATICS

Intent: To provide a strong grounding in numbers to 10, developing a deep conceptual understanding of which to provide the building blocks for future mathematical concepts. Curiosity around number, shape, space and measures will be developed through a range of opportunities to support their readiness for school and the mathematical world around them.

By the end of nursery (based Development Matters) most children will be able to:

- Know that the last number reached when counting a small set of objects tells you how many there are in total.
- Show 'finger numbers' up to 5.
- Matches numerals and amounts up to 5.
- subitise up to 3.
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5.
- Compare quantities using language: 'more than', 'fewer than'.
- Talk about and explore 2D and 3D shapes using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc.
- Understand position through words alone.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- Talk about and identify the patterns around them.
- Extend and create ABAB patterns – stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.

By the end of reception (ELG) most children will be able to:

- Number**
- Have a deep understanding of numbers to 10, including the composition of each number
 - Subitise (recognise quantities without counting) up to 5
 - 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.
- Numerical patterns**
- 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.
 - Explore and represent patterns within numbers to 10, including evens and odd, double facts and how quantities can be distributed evenly.
- Select, rotate and manipulate shapes in order to develop spatial awareness
 - Investigate how shapes can be combined to make new shapes
 - Copy, continue and create repeating patterns
 - Compare length, weight and capacity using comparative language

MATHS: DIRECT TEACHING

****Order to be determined by teaching staff****

	Autumn	Spring	Summer
Nursery Number Number Patterns	Counting rhymes and songs using fingers to represent numbers Recite numbers counting past 5	Cardinal value to 3 and counting groups to 3 Link numeral amounts up to 3 Compare quantities using vocabulary such as more than, less than Talk about and identify patterns Discuss routes and locations using appropriate vocabulary	Recognition of up to 3 objects Show finger numbers up to 5 Cardinal value to 5 Link numeral amounts up to 5 Notice and correct an error in a repeating pattern
Nursery Shapes and Measures	Talk about and explore 2D shapes and language associated	Talk about and explore 3D shapes and language associated Investigate size, length, weight and capacity	Combining shapes to make new shapes Select appropriate shape for building Make simple comparisons between size, length, weight and capacity
Reception Number Number Patterns	Recite numbers to 10 Subitise to 6 Representing, comparing, composition of 1-3 Matching and sorting Introduce zero Representing, comparing, composition of 4-6 1 more and 1 less Copy a repeating pattern	Recite numbers past 10 Cardinal and ordinal to 10 Representing, comparing, composition of 7-10 Combining 2 groups Consolidation 1-10 Bonds to 10 Adding more Taking away Continue a repeating pattern	Recite numbers beyond 20 Building numbers beyond 10- comparing and ordering Counting patterns beyond 10- adding to full sets of 10 Instant recall of bonds to 10 Recognise doubles facts Odd and even Sharing and grouping Create repeating patterns
Reception Shapes and Measures	Measure Compare size, capacity and mass Shape Recognise circles and triangles Recognise shapes with 4 sides and know simple properties	Measure Compare size-(length, height) mass and capacity Length and height Shape Find 2d shapes within 3d shape and patterns Simple properties of 3d shapes	Shape Spatial reasoning - visualise and build Comparing simple properties of 2d and 3d shapes