Mathematics Whole School Long Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	**Measure, shape and spatial thinking** Sorting & matching Compare sizes, weights etc. using gesture and language Talk about and identify the patterns around them	**Number** Recite numbers up to 3 Show 'finger numbers' up to 3 Say one number for each item in order: 1,2,3. Know that the last number reached when counting a small set of objects tells you how many there are in total **Measure, shape and spatial thinking** Talk about and explore 2D shapes using informal and mathematical language Understand position through words alone	**Number** Develop fast recognition of up to 3 objects, without having to count them individually Recite numbers up to 5 Show 'finger numbers' up to 5 Say one number for each item in order: 1,2,3,4,5 **Measure, shape and spatial thinking** Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc Make comparisons between objects relating to size, length, weight and capacity Understand position through words alone	**Number** Know that the last number reached when counting a small set of objects tells you how many there are in total Begin to solve real world mathematical problems with numbers up to 5 **Measure, shape and spatial thinking** Make comparisons between objects relating to size, length, weight Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then…' Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc	**Number** Begin to experiment with their own symbols and marks as well as numerals Solve real world mathematical problems with numbers up to 5 Begin to compare quantities using language: 'more than', 'fewer than' **Measure, shape and spatial thinking** Make comparisons between objects relating to size, length, weight and capacity Talk about and identify the patterns around them	**Number** 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' **Measure, shape and spatial thinking** Talk about and identify the patterns around them Extend and create patterns Describe a familiar route Discuss routes and locations, using words like 'in front of' and 'behind'

Mathematics Whole School Long Term Plan

Reception	**Number** Class routines Key times of the day Match and sort Compare amounts **Measure and Pattern** Compare size, mass and capacity. Explore, continue and create patterns	**Number** Representing 1,2 & 3 Comparing 1,2 & 3 Composition of 1,2 & 3 Representing numbers to 5 One more and one less **Measure, shape and spatial thinking** Circles and triangles Shapes with 4 sides	**Number** Introducing zero Comparing numbers to 5 Composition of 4 & 5 6,7 & 8 Combining 2 amounts Making pairs **Measure, shape and spatial thinking** Compare mass Compare capacity Length & height Time	**Number** Counting to 9 & 10 Comparing numbers to 10 Bonds to 1 **Measure, shape and spatial thinking** 3d-shapes Spatial awareness Patterns	**Number** (To 20 and beyond) Building numbers beyond 10 Counting patterns beyond 10 Adding more Taking away **Measure, shape and spatial thinking** Spatial reasoning Match, rotate and manipulate Spatial reasoning Compose and decompose	**Number** Doubling Sharing and grouping Even and Odd Deepening understanding Patterns and relationships **Measure, shape and spatial thinking** Spatial reasoning Visualise and build Spatial reasoning Mapping
Year 1	**Number** Place Value (within 10) **Number** Addition and Subtraction (within 10)	**Number** Addition and Subtraction (within 10) **Geometry** Shape	**Number** Place Value (within 20) **Number** Addition and Subtraction (within 20)	**Number** Place Value (within 50) **Measurement** Length and Height **Measurement** Mass and Volume	**Number** Multiplication and Division **Number** Fractions **Geometry** Position and Direction	**Number** Place Value (within 100) **Measurement** Money **Measurement** Time
Year 2	**Number** Place Value **Number** Addition and Subtraction	**Number** Addition and Subtraction **Geometry** Shape	**Measurement** Money **Number** Multiplication and Division	**Number** Multiplication and Division **Measurement** Length and Height **Measurement** Mass, Capacity and Temperature	**Number** Fractions **Measurement** Time	**Measurement** Time **Statistics** **Geometry** Position and Direction
Year 3	**Number** Place Value **Number**	**Number** Addition and Subtraction **Number**	**Number** Multiplication and Division **Measurement**	**Measurement** Length and Perimeter **Number** Fractions	**Number** Fractions **Measurement** Money	**Measurement** Time **Geometry** Properties of Shape

	Addition and Subtraction	Multiplication and Division	Length and Perimeter	**Measurement** Mass and Capacity	**Measurement** Time	**Statistics**
Year 4	**Number** Place Value **Number** Addition and Subtraction	**Number** Addition and Subtraction **Measurement** Area **Number** Multiplication and Division	**Number** Multiplication and Division **Measurement** Length and Perimeter	**Number** Fractions **Number** Decimals	**Number** Decimals **Measurement** Money **Measurement** Time	**Geometry** Properties of Shape **Statistics** **Geometry** Position and Direction
Year 5	**Number** Place Value **Number** Addition and Subtraction	**Number** Multiplication and Division **Number** Fractions	**Number** Multiplication and Division **Number** Fractions	**Number** Decimals and Percentages **Measurement** Perimeter and Area **Statistics**	**Geometry** shape **Geometry** Position and Direction **Number** Decimals	**Number** Decimals **Number** Negative Numbers **Measurement** Converting Units **Measurement** Volume
Year 6	**Number** Place Value **Number** Addition, Subtraction, Multiplication and Division	**Number** Addition, Subtraction, Multiplication and Division **Number** Fractions **Measurement** Converting Units	**Number** Ratio **Number** Algebra **Number** Decimals	**Number** Fractions, Decimals and Percentages **Measurement** Perimeter, Area and Volume **Statistics**	**Geometry** Shape **Geometry** Position and Direction	**Investigations** **Problem Solving**