



Reception Maths Scope and Sequence

Mathematics in Reception involves providing children with opportunities to develop and improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction problems, and to describe shapes, spaces, and measures. Numicon is used to develop a multi-sensory approach to maths designed to give children the understanding of number.

Maths is taught throughout the week both explicitly to the whole class and through small group work. This allows all objectives to be continually embedded throughout the school year. Daily Maths Meetings serve to embed and consolidate vital areas of the Reception curriculum. All mathematical strands are reviewed and revisited as part of these Maths Meetings. The termly objectives below highlight the explicit teaching that takes place each term.

The mathematical strands for Reception are:

- Number: value, ordering, counting
- Number: addition and subtraction
- Number: doubling, halving and sharing
- Shape: patterns
- Shape: 2D and 3D shapes
- Space: position and distance
- Measure: weight, length, capacity, time, money



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Ongoing objectives explored in daily Maths Meeting

To know the four seasons and months of the year in order	<ul style="list-style-type: none"> • Daily maths meeting – discuss season and describe weather • Months of the year song • Songs about seasons/weather • Matching clothing to seasons • Matching weather to seasons
To know the days of the week in order	<ul style="list-style-type: none"> • Daily Maths Meeting – days of the week song • Make days of the week paperchain
To know when it is morning/afternoon/evening /night time	<ul style="list-style-type: none"> • Pictorial daily timetable – drawing and labelling • Sequencing and labelling picture cards

Autumn Term (more able in red)

Number Objectives	Space, Space and Measure Objectives
To recognise and order numbers to 10 (20)	To recognise, describe and copy colour patterns
To count up to 10 (20) objects/abstract materials reliably	To recognise, describe and copy shape patterns
To make sensible estimations of quantity and check using 1:1 correspondence	To recognise, describe and copy size patterns
To subitise up to 5 (10)	To extend simple repeating patterns
To compare sets of objects up to 10 in different contexts, considering size and difference	To order objects by size
To find one more than a given number within 10 (20)	To recognise and name 2D shapes (square, circle, triangle, rectangle) (pentagon, hexagon)
To find one less than a given number within 10 (20)	To describe the properties of 2D shapes (corners/vertices, sides)
To understand that addition is combining 2 groups and counting to find the total (numbers within 10/20)	
To understand that subtraction is taking away from the biggest number (numbers within 10/20)	



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Spring Term (more able in red)	
Number Objectives	Space, Space and Measure Objectives
To recognise and order numbers to 20	To recognise and name 3D shapes (cube, cuboid, sphere, cone, cylinder) (describe the properties)
To count up to 20 objects/abstract materials reliably	To describe the properties of 3D shapes (corners/vertices, edges, faces)
To make sensible estimations of quantity and check using 1:1 correspondence	To use everyday language to talk about length
To find one more than a given number within 20	To estimate, compare and explore the length of everyday objects
To find one less than a given number within 20	To use everyday language to talk about volume and capacity
To solve simple addition problems by counting on (using mental strategies)	To explore and compare the volumes and capacities of everyday objects
To solve simple subtraction problems by counting back (using mental strategies)	To use everyday language to talk about weight
To understand the concept of equal groups	To estimate, compare and explore the weight of everyday objects
To share or group objects into equal groups	To use mathematical language to describe position e.g. over, under, next to, on top of.
To understand the concept of half (numbers within 10)	
To recall double facts up to $5+5$ ($10+10$)	



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Summer Term (more able in red)	
Number Objectives	Space, Space and Measure Objectives
To explore numbers beyond 20 (up to 100) using the hundred square <ul style="list-style-type: none">Counting in 2s, 5s and 10s using number line/hundred squareExplore patterns of number up to 10 (including evens and odds)	To know the value of coins (notes)
To work with addition and subtraction <ul style="list-style-type: none">Recognise that addition can be done in any orderUnderstand the biggest number comes first when subtractionDouble numbers to a total of 10 (20)Using +, - and = signs correctly	To add together coins to make a total (explore giving change from simple totals)
To know number bonds for numbers 0-5 (0-10)	To tell the time to the hour (half hour)
To know the corresponding partitioning facts	To name and describe the properties of 3D shapes (corners/vertices, edges, faces)
	To explore data through tallies, bar charts and pictograms (answer simple questions about data collection)