

Maths Reception Termly Overview

The early years of a child's life are crucial for developing strong mathematical foundations. Research shows that early maths understanding not only predicts future success in mathematics, but also supports progress in reading, general education, and social development. At Endeavour Academy, we are committed to ensuring all children build confidence and fluency in number from the very start.

We follow the **NCETM Mastering Number Approach** in Reception. This carefully sequenced programme focuses on securing deep understanding of key number concepts including:

- **Counting**
- **Subitising**
- **Composition of Number**
- **Comparison**

Our aim is for children to leave Early Years with strong calculation skills and a flexible, confident approach to number.

Weekly Maths Structure

- **Four Mastering Number sessions** are delivered each week (10–15 minutes each), allowing all children to explore key concepts together.
- Children who need further support are identified during sessions and work in small focus groups to consolidate their learning.
- **Enrichment opportunities** are planned to enhance continuous provision and embed maths into daily routines.
- A **fifth weekly session** focuses on **Shape, Space and Measure**, informed by NCETM progression guidance and The Learning Trajectories.

Embedded Knowledge and Skills

Throughout the year, children revisit and apply mathematical concepts through:

- Daily routines such as counting during registration or snack time
- Maths-rich play environments that encourage exploration and problem-solving

Maths Reception Termly Overview

- Opportunities to notice and describe patterns, shapes, and measures in their surroundings
- Activities that promote mathematical language and reasoning

We cover three additional areas of early mathematics learning—**Pattern, Shape and Space**, and **Measures**—which provide a platform for everything children will encounter as they progress through their maths journey in primary school and beyond.

		Mastering Number	Pattern, Shape & Space, Measure
Autumn 1	Week 1-2	BASELINE	BASELINE
	Week 3	Subitising <ul style="list-style-type: none"> • Perceptual subitising to 3 	Pattern <ul style="list-style-type: none"> • Copy and continue AB patterns
	Week 4	Counting <ul style="list-style-type: none"> • Counting sequence • 1:1 correspondence • Cardinality 	Pattern <ul style="list-style-type: none"> • Copy, continue and make an AB pattern • Continue a pattern which ends mid-unit
	Week 5	Composition <ul style="list-style-type: none"> • Composition of 3 & 4 	Pattern <ul style="list-style-type: none"> • Copy and continue an ABC pattern
	Week 6	Subitising <ul style="list-style-type: none"> • Subitising to 4 • Perceptual and conceptual • Making 4 	Pattern <ul style="list-style-type: none"> • Copy, continue and make an ABC pattern • Continue a pattern which ends mid-unit
	Week 7	Comparison <ul style="list-style-type: none"> • Focus on language and think about attributes 	Pattern <ul style="list-style-type: none"> • Spot errors in patterns
	Week 8	Assessment and revision of key knowledge	Pattern Create AB/ABC patterns around a circle/border

Maths Reception Termly Overview

		Mastering Number	Shape, Space, Measure & Pattern
Autumn 2	Week 1	Cardinality and Counting <ul style="list-style-type: none"> Focus on counting to 5 	2D Shape <ul style="list-style-type: none"> Identify similarities between shapes
	Week 2	Comparison <ul style="list-style-type: none"> Comparisons by matching 	2D Shape <ul style="list-style-type: none"> Name simple 2D shapes – square, rectangle, circle, triangle, pentagon
	Week 3	Composition <ul style="list-style-type: none"> Focus on the concept of a ‘whole’ 	2D Shape <ul style="list-style-type: none"> Properties of 2D shapes – sides – corners Describing properties
	Week 4	Composition <ul style="list-style-type: none"> Focus on the composition of 5 	2D Shape <ul style="list-style-type: none"> Develop an awareness of relationships
	Week 5	Cardinality and Counting <ul style="list-style-type: none"> Counting beyond 5 	Time <ul style="list-style-type: none"> Beginning to use time to sequence events – times of the day, visual timetable
	Week 6	Assessment and Revision of key knowledge	Time <ul style="list-style-type: none"> Calendar events – Birthday
	Week 7	Assessment and Revision of key knowledge	Time <ul style="list-style-type: none"> Experience specific time durations

Maths Reception Termly Overview

		Mastering Number	Shape, Space, Measure & Pattern
Spring 1	Week 1	Subitising <ul style="list-style-type: none"> Focus on linking subitising amounts to 5 with numerals 	Length <ul style="list-style-type: none"> Recognising attributes – long and short Comparing amounts of continuous quantities – longer, shorter – introducing starting points are aligned
	Week 2	Ordinality <ul style="list-style-type: none"> Ordering numbers to 5. Focus on each number being 1 more than the previous number. 	Length <ul style="list-style-type: none"> Measuring using a non-standard unit Recognising the relationship between the size and number of units
	Week 3	Composition <ul style="list-style-type: none"> Focus on the composition of five and considering missing numbers 	Length <ul style="list-style-type: none"> Showing awareness of comparison in estimating and predicting
	Week 4	Composition <ul style="list-style-type: none"> Beginning to consider '5 and a bit' numbers using fingers and die frames as key representations 	Length <ul style="list-style-type: none"> Comparing indirectly – ordering by length
	Week 5	Composition <ul style="list-style-type: none"> Focus on equal and unequal groups 	Height <ul style="list-style-type: none"> Recognising attributes – tall and short Measuring using a non-standard unit and compare amounts
	Week 6	Counting <ul style="list-style-type: none"> Counting sequence Ordinality of 1-5 1 more and 1 less than within 10 Linking ordinality and cardinality through use of staircase pattern 	Height <ul style="list-style-type: none"> Showing awareness of comparison in estimating and predicting Comparing indirectly – ordering by height

Maths Reception Termly Overview

		Mastering Number	Shape, Space, Measure & Pattern
Spring 2	Week 1	Comparison <ul style="list-style-type: none"> • Comparison using knowledge of ordinality rather than comparison by matching of quantities • Children to notice whether a change creates a number which is more or less than another 	3D Shapes <ul style="list-style-type: none"> • Shape awareness – developing shape awareness through construction • Identifying similarities between shapes
	Week 2	Composition <ul style="list-style-type: none"> • Composition of 7 as 2 groups • Focus on 5 and a bit 	3D Shapes <ul style="list-style-type: none"> • Introduce shape name and properties • Cube and Cuboid
	Week 3	Subitising <ul style="list-style-type: none"> • Subitising within 6 • Look at doubles – which numbers can be made using doubles and which numbers cannot 	3D Shapes <ul style="list-style-type: none"> • Introduce shape name and properties • Cone and Pyramid
	Week 4	Composition <ul style="list-style-type: none"> • Sort odd and even numbers by looking at their tops; odd blocks and flat tops 	3D Shapes <ul style="list-style-type: none"> • Introduce shape name and properties • Cylinder and Sphere
	Week 5	Counting, Cardinality and Ordinality <ul style="list-style-type: none"> • Counting larger amounts • Strategies for counting 	3D Shapes <ul style="list-style-type: none"> • Revisit all 3D shapes and their properties

Maths Reception Termly Overview

		Mastering Number	Shape, Space, Measure & Pattern
Summer 1	Week 1	Subitising <ul style="list-style-type: none"> Structured arrangements including the 10 frame 	3D Shapes <ul style="list-style-type: none"> Developing an awareness of relationships between shapes
	Week 2	Composition <ul style="list-style-type: none"> Focus on representations of numbers using fingers and 10-frame 	Measure - Mass <ul style="list-style-type: none"> Recognising attributes – heavy and light Comparing amounts of continuous quantities – heavier, lighter – indicated by a greater downward pull, link to balance scales – expose to small heavy things and large light things
	Week 3	Composition <ul style="list-style-type: none"> Focus on doubles using different representations 	Measure - Mass <ul style="list-style-type: none"> Showing awareness of comparison in estimating and predicting *Checking through measuring using units to compare
	Week 4	Comparison <ul style="list-style-type: none"> Focus on ordinality, comparing numbers 	Measure - Mass <ul style="list-style-type: none"> Comparing indirectly – ordering by mass
	Week 5 REVIEW AND ASSESS	Subitising and The Rekenrek <ul style="list-style-type: none"> 'Seeing' small quantities and numbers within larger amounts Introduction to Rekenrek Linking familiar representations such as numbers of fingers to representations on the Rekenrek 	Measure – Capacity <ul style="list-style-type: none"> Recognising attributes – full and empty Comparing amounts of continuous quantities – 'holds more than' 'holds less than' Showing awareness of comparison in estimating and predicting eg. what container would be best to hold a given substance?
	Week 6	Counting <ul style="list-style-type: none"> Strategies for counting. 	Measure - Capacity <ul style="list-style-type: none"> Comparing indirectly – ordering by capacity

Maths Reception Termly Overview

REVIEW AND ASSESS	<ul style="list-style-type: none"> Recognising the pattern of the counting system, when beginning to count beyond 20 	<ul style="list-style-type: none"> Recognise the relationship between the size and number of units
--------------------------	---	---

		Mastering Number	Shape, Space, Measure & Pattern
Summer 2	Week 1 REVIEW AND ASSESS	Comparison <ul style="list-style-type: none"> Comparing groups of objects that are of different sizes/colours/attributes Developing a sense of magnitude eg knowing that 8 is a lot more than 2. But that 4 is only a little bit more than 2	Space <ul style="list-style-type: none"> Experiencing different viewpoints Developing spatial vocabulary – position, direction and viewpoint
	Week 2 REVIEW AND ASSESS	Pattern in Number <ul style="list-style-type: none"> Investigating ‘parts’ and ‘wholes’. Exploring the composition of numbers to 10 Investigating the equivalence, doubles and making odd and even numbers 	Revisit Pattern <ul style="list-style-type: none"> Continuing and creating AB/ABC/ABB/ABBA patterns
	Week 3 REVIEW AND ASSESS	Deep Understanding of Numbers to 10 <ul style="list-style-type: none"> Continuing to practically explore the composition of numbers to 10 <ul style="list-style-type: none"> Investigating 5 as a key ‘anchor’ in our number system Beginning to generalise 	Revisit 2D Shape <ul style="list-style-type: none"> Names and properties
	Week 4 REVIEW AND ASSESS	Recall of Number Facts <ul style="list-style-type: none"> Learning the ‘numbers within’ 3. 4. 5 and 10 Knowing double facts up to 5 and 5 make 10 Investigating whole amounts and hidden quantities within 5 	Revisit 3D Shape <ul style="list-style-type: none"> Names and properties

Maths Reception Termly Overview

	AND ASSESS		
	Week 5 REVIEW AND ASSESS	Developing awareness of numbers beyond 10 <ul style="list-style-type: none"> Counting past 10 Recognising numbers to 20 	Revisit Time <ul style="list-style-type: none"> Sequence times of the day O'clock
	Week 6 REVIEW AND ASSESS	Composition beyond 10 <ul style="list-style-type: none"> Building numbers beyond 10 – spotting pattern eg. $12 = 10 + 2$ $11 = 10 + 1$ 	Revisit Length and Height <ul style="list-style-type: none"> Attribute language, comparative language, non-standard units,
	Week 7 REVIEW AND ASSESS	Composition beyond 10 <ul style="list-style-type: none"> Building numbers beyond 10 – spotting pattern eg. $12 = 10 + 2$ $11 = 10 + 1$ 	Revisit Mass <ul style="list-style-type: none"> Attribute language, comparative language, non-standard units,