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The Foundations of Maths in the EYFS

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders and teachers to understand how the skills taught across EYFS feed into Maths.

This document demonstrates which statements from the 2020 Development Matters are prerequisite knowledge and skills for mathematics within the national curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS statutory framework and the Development Matters age ranges for Three and Four-Year-Olds and Reception to match the programme of study for mathematics.

The most relevant statements for mathematics are taken from the following areas of learning:

- Communication and Language
- Mathematics

Mathematical Vocabulary		
Three and Four-Year-Olds	Communication and Language	
Reception	Communication and Language	
ELG	Communication and Language	Speaking

Number and Place Value		
Counting		
Three and Four-Year-Olds	Mathematics	
Reception	Mathematics	
ELG	Mathematics	Numerical Patterns

Identifying, Representing and Estimating Numbers		
Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> • Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). • Show 'finger numbers' up to 5. • Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. • Experiment with their own symbols and marks as well as numerals.
Reception	Mathematics	<ul style="list-style-type: none"> • Subitise. • Link the number symbol (numeral) with its cardinal number value.
ELG	Mathematics	Number <ul style="list-style-type: none"> • Subitise (recognising quantities without counting) up to 5.
Reading and Writing Numbers		
Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> • Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. • Experiment with their own symbols and marks as well as numerals.
Reception	Mathematics	<ul style="list-style-type: none"> • Link the number symbol (numeral) with its cardinal number value.
Compare and Order Numbers		
Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> • Compare quantities using language: 'more than', 'fewer than'.
Reception	Mathematics	<ul style="list-style-type: none"> • Compare numbers.
ELG	Mathematics	Numerical Patterns <ul style="list-style-type: none"> • Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
Understanding Place Value		
Reception	Mathematics	<ul style="list-style-type: none"> • Understand the 'one more than/one less than' relationship between consecutive numbers. • Explore the composition of numbers to 10.
ELG	Mathematics	Number <ul style="list-style-type: none"> • Have a deep understanding of numbers to 10, including the composition of each number.

Solve Problems		
Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> Solve real world mathematical problems with numbers up to 5.

Addition and Subtraction

Mental Calculations

Reception	Mathematics	<ul style="list-style-type: none"> Automatically recall number bonds for numbers 0-5 and some to 10. 	
ELG	Mathematics	Number	<ul style="list-style-type: none"> 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.

Solve Problems

ELG	Mathematics	Numerical Patterns	<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.
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Measurement

Describe, Measure, Compare and Solve (All Strands)

Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> Make comparisons between objects relating to size, length, weight and capacity.
Reception	Mathematics	<ul style="list-style-type: none"> Compare length, weight and capacity.

Telling the Time

Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...'
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Properties of Shapes

Recognise 2D and 3D Shapes and their Properties

Three and Four-Year-Olds	Mathematics	<ul style="list-style-type: none"> 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 a building, a triangular pattern for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc.
Reception	Mathematics	<ul style="list-style-type: none"> Select, rotate and manipulate shapes in order to develop spatial reasoning skills.

Compare and Classify Shapes

Reception	Mathematics	<ul style="list-style-type: none"> Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.
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Position and Direction

Position, Direction and Movement

Three and Four- Year- Olds	Mathematics	<ul style="list-style-type: none">• Understand position through words alone – for example, “The bag is under the table,” – with no pointing.• Describe a familiar route.• Discuss routes and locations, using words like ‘in front of’ and ‘behind’.
Reception	Understanding the World	<ul style="list-style-type: none">• Draw information from a simple map.

Patterns

Three and Four- Year- Olds	Mathematics	<ul style="list-style-type: none">• Talk about and identify the patterns around them. For example, stripes on clothes, designs on rugs and wallpaper. Use informal language like ‘pointy’, ‘spotty’, ‘blobs’, etc.• Extend and create ABAB patterns – stick, leaf, stick, leaf.• Notice and correct an error in a repeating pattern.
Reception	Mathematics	<ul style="list-style-type: none">• Continue, copy and create repeating patterns.

Statistics

Record, Present and Interpret Data

Three and Four- Year- Olds	Mathematics	<ul style="list-style-type: none">• Experiment with their own symbols and marks, as well as numerals.
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