

Learning Mathematics in 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 you as Subject Leaders to understand how the skills taught across EYFS feed into National Curriculum subjects.

This document demonstrates which statements from the 2020 Development Matters are pre-requisite 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, 2020I and the Development Matters 2020 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 an	id Language	 Use a wider range of vocabulary. Understand 'why' questions, like: "why do you think the 	
			caterpillar is so fat?"	
Reception	Communication and Language		• Learn new vocabulary.	
			 Use new vocabulary throughout the day. 	
ELG	Communication and Language	Speaking	 Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. 	

Number and Place	Value		
Counting			
Three and Four-Year- Olds	Mathematics		 Recite numbers past 5. Say one number name for each item in order: 1, 2, 3, 4, 5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
Reception	Mathematics		Count ob jects, actions and sounds.Count beyond ten.
ELG	Mathematics	Numerical Patterns	Verbally count beyond 20, recognising the pattern of the counting system.
ldentifying, Repre	senting and Estimati	ng Numbers	
Three and Four-Year- Olds	Mathematics		 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		Subitise. Link the number symbol (numeral) with its cardinal number value.
ELG	Mathematics	Number	Subitise (recognising quantities without counting) up to 5.
Reading and Wr	riting Numbers		
Three and Four-Year- Olds	Mathematics		 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		 Link the number symbol (numeral) with its cardinal number value.
Compare and Oi	rder Numbers		
Three and Four-Year- Olds	Mathematics		• Compare quantities using language: 'more than', 'fewer than'.
Reception	Mathematics		Compare numbers.
ELG	Mathematics	Numerical Patterns	 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 P	Place Value		
Reception	Mathematics		Understand the 'one more than/one less than' relationship between consecutive numbers. Employee the governoities of numbers to 10.
ELG	Mathematics	Number	 Explore the composition of numbers to IO. Have a deep understanding of numbers to IO, including the composition of each number.
Solve Problems			
Three and Four-Year- Olds	Mathematics		• Solve real world mathematical problems with numbers up to 5.
Addition and Sub Mental Calculation			
Reception	Mathematics		Automatically recall number bonds for numbers 0–10.
ELG	Mathematics	Number	 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	 Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.



Reception	Mathematics	 Subitise. Link the number symbol (numeral) with its cardinal number value. 			
Measurement					
Describe, Measure,	Compare and Solve (All Strands)				
Three and Four-Year- Olds	Mathematics	 Make comparisons between objects relating to size, length, weight and capacity. 			
Reception	Mathematics	 Compare length, weight and capacity. 			
Telling the Time					
Three and Four-Year- Olds	Mathematics	 Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then' 			
Properties of Shap	Properties of Shapes				
Recognise 2D and 3	3D Shapes and their Properties				
Three and Four-Year- Olds	Mathematics	 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	 Select, rotate and manipulate shapes in order to develop spatial reasoning skills. 			
Compare and Clo	ussify Shapes				
Reception	Mathematics	 Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. 			
Position and Direct	ion				
Position, Direction	and Movement				
Three and Four-Year- Olds	Mathematics	 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	• Draw information from a simple map.			
Patterns					



Three and Four-Year- Olds Reception	Mathematics Mathematics	 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. Continue, copy and create repeating patterns.
Statistics Record, Present and Interpret Data		
Three and Four-Year- Olds	Mathematics	 Experiment with their own symbols and marks, as well as numerals.