Mathematics in EYFS: What Maths Subject Leaders Need to Know

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 to understand how the skills taught across EYFS feed into national curriculum subjects.

This document demonstrates which early years outcomes are prerequisite skills for mathematics within the national curriculum. The table below outlines the most relevant early years outcomes from 30-50 months to ELG, brought together from different areas of the Early Years Foundation Stage to match the programme of study for mathematics.

The most relevant early years outcomes for mathematics are taken from the following areas of learning:

- · Communication and Language
- Mathematics

Mathematical Vocabulary						
30-50 Months	Communication and Language	Speaking	To build up vocabulary that reflects the breadth of their experiences.			
40-60 Months	Communication and Language	Speaking	 To extend vocabulary, especially by grouping and naming, exploring the meaning and sounds of new words. 			
Number and	Place Value					
Counting						
30-50 Months	Mathematics	Numbers	 To recite numbers in order to 10. To realise not only objects, but anything can be counted including steps, claps or jumps. 			
40-60 Months	Mathematics	Numbers	 To count up to three or four objects by saying one number name for each item. To count out up to six objects from a larger group. To count actions or objects which cannot be moved. To count objects to 10 and beginning to count beyond 10. To count an irregular arrangement of up to ten objects. To estimate how many objects they can see and check by counting them. 			
ELG	Mathematics	Numbers	To count reliably with numbers from one to 20.			
		Estimating Numb				
30-50 Months	Mathematics	Numbers	 To use some number names and number language spontaneously. To know that numbers identify how many objects are in a set. To show an interest in representing numbers. To begin to represent numbers using fingers, marks on paper or pictures. To separate a group of three or four objects in different ways, beginning to recognise that the total is still the same. To sometimes match numeral and quantity correctly. 			





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iviatnematics	Numbers	 To select the correct numeral to represent 1 to 5, then 1 to 10 objects. 				
		To say the number that is one more than a given number.				
		To find one more or one less from a group of up to five objects,				
		then ten objects.				
Mathematics	Numbers	 To say which number is one more or one less than a given number from one to 20. 				
Reading and Writing Numbers						
Mathematics	Numbers	To show an interest in numerals in the environment.				
		To use some number names accurately in play.				
Mathematics	Numbers	To recognise some numerals of personal significance.				
		• To recognise numerals 1 to 5.				
Order Numbers						
Mathematics	Numbers	To compare two groups of objects, saying when they have the same number.				
Mathematics	Numbers	To use the language of 'more' and 'fewer' to compare two sets of objects.				
Mathematics	Numbers	To place numbers one to 20 in order.				
g Place Value						
Mathematics	Numbers	To show curiosity about numbers by offering comments or asking questions.				
ms						
Mathematics	Numbers	To show an interest in number problems.				
Mathematics	Numbers	To begin to identify own mathematical problems based on own interests and fascinations.				
Subtraction						
Mental Calculations						
	Numbers	To find the total of items in two groups by counting all of them.				
Wathematics	Numbers	To begin to use the vocabulary involved in adding and				
		subtracting in practical activities and discussion.				
Mathematics	Numbers	To add and subtract two single-digit numbers and count on				
		back to find the answer using quantities and objects.				
ns						
Mathematics	Numbers	To solve problems, including doubling, halving and sharing.				
t						
Measurement Describe, Measure, Compare and Solve (all strands)						
Mathematics	<u> </u>	To order two or three items by length or height.				
	and Measure	To order two items by weight or capacity.				
Mathematics	Shape, Space	To use everyday language to talk about size, weight, capacity,				
	and Measure	position, distance, time and money to compare quantities and objects and solve problems.				
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Telling the Ti	me					
40-60 Months	Mathematics	Shape, Space and Measure	 To use everyday language related to time. To order and sequence familiar events. To measure short periods of time in simple ways. 			
Money						
40-60 Months	Mathematics	Shape, Space and Measure	To begin to use everyday language related to money.			
Properties of Shapes						
Recognise 2D and 3D Shapes and their Properties						
30-50 Months	Mathematics	Shape, Space and Measure	 To show an interest in shape and space by playing with shapes or making arrangements with objects. To show interest in shape by sustained construction activity or by talking about shapes or arrangements. To show interest in shapes in the environment. To use shapes appropriately for tasks. To begin to talk about shapes in everyday objects, e.g. 'round' and 'tall'. 			
40-60 Months	Mathematics	Shape, Space and Measure	 To begin to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes. To select particular named shapes. 			
ELG	Mathematics	Shape, Space and Measure	To explore characteristics of everyday objects and shapes and use mathematical language to describe them.			
Compare and	Classify Shapes					
30-50 Months	Mathematics	Shape, Space and Measure	To show awareness of similarities of shapes in the environment.			
Position and	Direction					
Position, Dire	ection and Movem	ent				
30-50 Months	Mathematics	Shape, Space and Measure	To use positional language.			
40-60 Months	Mathematics	Shape, Space and Measure	To describe their relative position, such as 'behind' or 'next to'.			
Patterns						
40-60 Months	Mathematics	Shape, Space and Measure	To use familiar objects and common shapes to create and recreate patterns and build models.			
ELG	Mathematics	Shape, Space and Measure	To recognise, create and describe patterns.			
Statistics						
Record, Present and Interpret Data						
40-60 Months	Mathematics	Numbers	To record, using marks that they can interpret and explain.			





Notes	



