

## **Foundations in Maths**

The Statutory Framework for the Early Years Foundation Stage is organised across seven areas of learning and development rather than specific subject areas.

The table below identifies the statements taken from the Statutory Framework for EYFS 2021 and *Development Matters* which are foundation skills for Maths within the National Curriculum.

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

- Communication and language
- Mathematics

Children have the opportunity to develop foundation skills in Maths as part of the daily continuous provision and focussed sessions in our EYFS provision.

Cardinality and Counting				
Understanding that the cardinality value of a number refers to the quality, or 'howmanyness' of				
things it rep	•			
Three and	Communication and language	Use a wider range of vocabulary.		
Four-		Sing a large repertoire of songs.		
Year-Olds		<ul> <li>Use longer sentences of four to six words.</li> </ul>		
	Mathematics	Combine objects like stacking blocks and cups.		
		Put objects inside others and take them out		
		again		
		Take part in finger rhymes with numbers.		
		Compare amounts, saying 'lots', 'more' or		
		'same'		
		Develop fast recognition of up to 3 objects,		
		without having to count them individually		
		('subitising').		
		Know that the last number reached when		
		counting a small set of objects tells you how		
		many there are in total ('cardinal principle').		
		Count in everyday contexts		
		• Say one number for each item in order: 1,2,3,4,5		
		Recite numbers past 5.		
		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.		
		Explore the composition of numbers to 10		
		Automatically recall number bonds for numbers		
		0–5 and some to 10.		
Reception	Communication and language	Learn new vocabulary		
		Learn rhymes, poems and songs.		
	Mathematics	Count objects, actions and sounds		
		Link the number symbol (numeral) with its		
		cardinal number value.		
		Subitise		

			•	Link the number symbol (numeral) with its cardinal number value. Count beyond 10
ELG	Communication and Language	Speaking & Listening	•	Listen attentively and respond to what they hear with relevant questions.  Make comments about what they have heard.  Offer explanation about why things might happen.
	Mathematics		•	Have a deep understanding of number to 10, including the composition of each number. Subitise up to 5 without counting. Automatically recall number bonds to 5 and some number bonds to 10, including doubling facts.

Comparison	Comparison				
Understanding that comparing number involves knowing which numbers are worth more or less					
than each other					
Three and	Communication a	nd language	•	Understand 'why' questions.	
Four-	and an grade		•	Use longer sentences of four to six words.	
Year-Olds	Mathematics		•	Experiment with their own symbols and marks	
				as well as numerals.	
			•	Solve real world mathematical problems with	
				numbers up to 5.	
			•	Compare quantities using language: 'more than',	
				'fewer than'.	
Reception	Communication a	nd language	•	Learn new vocabulary	
			•	Articulate their ideas and thoughts in well-	
				formed sentences.	
	Mathematics		•	Compare numbers within 10	
			•	Understand the 'one more than/one less than'	
TI C	Communication	Canalina 0		relationship between consecutive numbers.	
ELG	Communication	Speaking &	•	Make comments about what they have heard.	
	and Language	Listening	•	Offer explanation about why things might	
	Mathematics	Creating	•	happen.	
	Mathematics	Materials	•	Have a deep understanding of number to 10, including the composition of each number.	
		iviateriais	•	Compare quantities up to 10 in different	
				contexts, recognising when one quantity is	
				greater than, less than or the same as the other	
				quantity.	
			•	Explore patterns within numbers up to 10,	
				including evens and odds, double facts and how	
				many quantities can be distributed evenly.	

Shape and	Shape and Space				
Understand	Understanding what happens when shapes move, or combine with other shapes, helps develop				
wider math	wider mathematical thinking				
Three and	Communication and language	<ul> <li>Use a wider range of vocabulary.</li> </ul>			
Four-		<ul> <li>Use longer sentences of four to six words.</li> </ul>			
Year-Olds	Mathematics	<ul> <li>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'.</li> <li>Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc.</li> </ul>			
Reception	Communication and language	<ul> <li>Learn new vocabulary</li> <li>Articulate their ideas and thoughts in well-formed sentences.</li> </ul>			
	Mathematics	<ul> <li>Select, rotate and manipulate shapes to develop spatial reasoning skills.</li> </ul>			

			•	Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
ELG	Communication and Language	Speaking & Listening	•	Listen attentively and respond to what they hear with relevant questions.  Make comments about what they have heard.  Offer explanation about why things might happen.
	Mathematics		•	Develop spatial reasoning skills Recognise, create and describe patterns

Maggure	M					
<b>Measure</b> Comparing different aspects such as length, weight and volume, as a preliminary to using units to						
	comparing different aspects such as length, weight and volume, as a preliminary to using units to					
Three and Four- Year-Olds	Communication a  Mathematics	nd language	•	Use a wider range of vocabulary. Use longer sentences of four to six words.  Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.  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'.  Make comparisons between objects relating to size, length, weight and capacity		
Reception	Communication and language		•	Learn new vocabulary		
	Mathematics	lathematics		Compare length, weight and capacity.		
ELG	Communication and Language  Mathematics	Speaking & Listening	•	Listen attentively and respond to what they hear with relevant questions.  Make comments about what they have heard.  Offer explanation about why things might happen.		
	iviatnematics		•	Use everyday language to talk about size, weight, capacity, position, distance, time, and money to compare quantities and objects and to solve problems.		