EYFS Maths



Maths

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas.

Maths is taught cross curricular every day during both adult directed and child initiated learning. E.g. maths games on the IWB, maths puzzles and games, playing and building with shapes.

We record Maths through observations which can be seen on Tapestry in Nursery and Reception. Tapestry is an online learning journal which consists of pictures of children's work, children's voice, moments from home e.g. writing own number sentences, adult led activities, independent activities as well as child initiated learning (this is where children can choose where to work and we scaffold their learning). In Reception we also have a theme and maths folder. In the Maths folder you can see work on writing numbers, adding and subtracting, drawing pictures using shapes. Also work is displayed around the classroom and in the reading corner across EYFS.

Examples of some activities that can be seen across the year in EYFS are:

- Using bead strings to count 1-1
- Individual tens frame and large tens frame for counting
- 3d shapes to build models with
- Completing jigsaw puzzles
- Tap a shape and geo boards to create 2d shapes
- Various objects for sorting
- Role play area with tills for shopping and using money
- Weighing scales for balancing
- Sand and water tray for capacity

Below is the EYFS statements taken from Birth to 5 that children need to meet during Nursery and Reception. You can see the progression from Range 5 to Early Learning Goals (ELG). ELG is where children should be at the end of Reception. Maths is mostly seen in Mathematics (M)

	Mathematics (M)	
Range 5	 Comparison Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. You've got two, I've got two. Same! Counting May enjoy counting verbally as far as they can go Points or touches (tags) each item, saying one number for each item, using the stable order of 1,2,3,4,5. Uses some number names and number language within play, and may show fascination with large numbers Begin to recognise numerals 0 to 10 Cardinality Subitises one, two and three objects (without counting) Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle) Links numerals with amounts up to 5 and maybe beyond Explores using a range of their own marks and signs to which they ascribe mathematical meanings Composition Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers Beginning to use understanding of number to solve practical problems in play and meaningful activities 	 Shape Chooses items based on their shape which are appropriate for the child's purpose Responds to both informal language and common shape names Shows awareness of shape similarities and differences between objects Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes Attempts to create arches and enclosures when building, using trial and improvement to select blocks Pattern Creates their own spatial patterns showing some organisation or regularity Explores and adds to simple linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC)

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Range 6	 Beginning to recognise that each counting number is one more than the one before Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same Spatial Awareness Responds to and uses language of position and direction Predicts, moves and rotates objects to fit the space or create the shape they would like 	 Joins in with simple patterns in sounds, objects, games and stories dance and movement, predicting what comes next Measures In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items Recalls a sequence of events in everyday life and stories 	
	Uses number names and symbols when comparing pumbers, showing interest in large numbers	Uses informal language and analogies, A generation of the second and based an	
	Estimates of numbers of things, showing understanding	<i>leaves</i>), as well as mathematical terms to	
	of relative size	describe shapes	
	Counting	 Enjoys composing and decomposing 	
	• Enjoys reciting numbers from 0 to 10 (and beyond) and	shapes, learning which shapes combine to	
	Dack from 10 to 0	make other snapes	
	0 to 10 (ordinality)	increasing complexity selecting blocks	
	Cardinality	needed, solving problems and visualising	
	 Engages in subitising numbers to four and maybe five 	what they will build	
	 Counts out up to 10 objects from a larger group 	Pattern	
	• Matches the numeral with a group of items to show how	Spots patterns in the environment,	
	Composition	chaoses familiar chiests to create and	
	Shows awareness that numbers are made up	recreate repeating patterns beyond AB	
	(composed) of smaller numbers, exploring partitioning in	patterns and begins to identify the unit of	
	different ways with a wide range of objects	repeat	
	 Begins to conceptually subitise larger numbers by 	Measures	
	subitising smaller groups within the number, e.g.	 Enjoys tackling problems involving 	
	sees six raisins on a plate as three and three	prediction and discussion of comparisons of	
	with numbers to 10	to fairness and accuracy	
	Begins to explore and work out mathematical	Becomes familiar with measuring tools in	
	problems, using signs and strategies of their own	everyday experiences and play	
	choice, including (when appropriate) standard	 Is increasingly able to order and sequence 	
	numerals, tallies and "+" or "-"	events using everyday language related to	
	Spatial Awareness	time • Reginning to experience measuring time	
	giving directions, using relative terms and describing what	with timers and calendars	
	they see from different viewpoints		
	Investigates turning and flipping objects in order to make		
	shapes fit and create models; predicting and visualising		
	now they will look (spatial reasoning)		
	imaginative environments, with landmarks		
ELG	Statutory ELG: Number		
	Children at the expected level of development will:		
	- Have a deep understanding of number to 10, including the composition of each number;- Subitise		
	(recognise quantities without counting) up to 5;		
	- 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		
	Statutory ELG: Numerical Patterns		
	Children at the expected level of development will:		
	- Verbally count beyond 20, recognising the pattern of the counting system;		
	- 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 and represent patterns within numbers up to 10, including evens and odds, double facts and		
	how quantities can be distributed equally.		