

## Currículum Sequence

## **Mathematics**

Mathematics is a Specific Area in the Early Years Foundation Stage Curriculum.

We know that young children follow a natural developmental process when learning mathematical concepts and ideas. Our sequence of learning supports this and ensures that children experience a broad and balanced delivery of mathematical approaches and ideas.

Mathematics is everywhere! We believe mathematics in the early years should be real, hands-on and multisensory. Children develop their mathematical thinking when they can touch, feel and weigh concrete resources. The learning environment is full of awe inspiring, authentic resources, such as sparkling jewels to collect, huge pumpkins to transport and beautiful autumn resources to sort and make patterns with.

We aim to empower our children to believe that maths is fun and that they are able to be capable and confident mathematicians. Likewise, we support parents and carers to believe in their own abilities as we support them to understand what maths looks like in the early years. We invite parents to attend an 'Everyday Maths' workshop, where the parents learn and get involved in what we do in our setting to teach and develop their child's learning in maths and how they can support this at home. It opens the parents' eyes to how practical, fun and accessible to all it is.



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Maths: Number					
	Our Sequence of Learning	Our Unique Approach	Notes		
"I am a keen explorer"  Two Year Old end point  Vocabulary: just one/only one, one more, two, three, counting, number, how many?	<ul> <li>Children say numbers spontaneously through play but without real meaning.</li> <li>Children are curious about numbers in the environment.</li> <li>Children recognise 'how many' instantly when looking at a small group of objects, e.g., 'one nose', 'two eyes'.</li> </ul>	<ul> <li>There are lots of opportunities to explore objects in a range of different qualities, for e.g., 3 big tyres to roll, a basket of pine cones, 4 seats at the snack table.</li> <li>Adults model counting at every opportunity, e.g., counting the children to see how many there are, counting cups and lunch boxes at lunch time.</li> <li>Practitioners give children opportunities to solve problems, e.g., leave two pieces out of a puzzle.</li> </ul>			
"I am active and curious"  Rising Three end point  Vocabulary: Number names to 5, touch count, all together, one more/less, a few, most, zero	<ul> <li>Children enjoy joining in with number rhymes, songs and chants.</li> <li>Children begin to know the sequence of numbers and can recite numbers with increasing accuracy to ten (rote counting).</li> <li>Children begin to develop understanding of one-to-one correspondence.</li> <li>Children begin to recognise numerals which are personal to them, for e.g., '3' because they are '3 years old'.</li> </ul>	rhymes and songs and using puppets and pro themselves.  • Adults model counting the skills involved whe Numerals are visible the meaningful contexts, find wall.  • Practitioners model w	hroughout the environment in for e.g., on the clock on the riting numbers on a regular e, for e.g., recording how many		
"I am capable and confident"  Pre-School end point  Vocabulary: Number names to 10, Order, number patterns, number sequence, numeral, count forward, count back, share, divide, equal, whole, total	<ul> <li>Children instantly recognise quantity without object counting (up to 3).</li> <li>Children can count objects to 10 with one-to-one correspondence.</li> <li>Children can confidently say 'how many' there are</li> <li>Children begin to show understanding of subitising and estimating.</li> <li>Children begin to write and make marks to represent numbers.</li> <li>To show 'finger numbers' up to 5.</li> <li>To solve real world mathematical problems with numbers up to 5.</li> </ul>	resources such as cou experiment and support number.  Children are encouraged mathematical thinking outside the box' with the county of the day.  Practitioners use every mathematical thinking	ounting, adding up, subitising, at various points throughout yday opportunities to develop through everyday problems me, a certain number of aprons		



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Maths: Numerical Patterns				
	Our Sequence of Learning	Our Unique Approach	Notes	
"I am a keen explorer"  Two Year Old end point  Vocabulary: fill, empty, same, different,	<ul> <li>I can recognise that two things are the same shape.</li> <li>I can fit pieces into an inset puzzle.</li> <li>I enjoy filling and emptying containers and can recognise when these are full and empty.</li> </ul>	<ul> <li>Continuous provision allows children to explore shape, space, and measure in lots of different ways.</li> <li>Adults play alongside children and point out mathematical elements as this arises in the moment, for example when putting two wellies on, or when building a simple tower.</li> </ul>		
"I am "active and curious"  Rising Three end point  Vocabulary: in, on,	<ul> <li>I am beginning to select shapes for a creating purpose, when constructing, creating or mark making.</li> <li>I can name some simple shapes.</li> <li>I can talk about properties that are the same and different with simple objects.</li> <li>I explore weight through malleable and tactile play, on a small scale and a large scale.</li> <li>I can use simple positional language e.g., in, on.</li> </ul>	mathematical concepts authentic learning envir huge buckets full of san Children are supported whole bodies as they lea Teaching in the momen when it happens, for e.g 'heavy' and running is la	to learn shape through their arn both indoors and out. t supports learning as and g., a lunch bag is labelled	
"I am capable and confident"  Pre-School end point  Vocabulary: in front of, behind,	<ul> <li>I can combine shapes to create other shapes, when constructing, drawing, or creating pictures, I am able to visualise and solve problems as I do.</li> <li>I understand how shapes can fit and balance together as I explore making enclosures, patterns, and new ideas.</li> <li>I understand position through words alone. E.g., 'The bag is under the table.'</li> <li>I can discuss routes and locations e.g., 'in front of' and 'behind.'</li> <li>I make comparisons between objects relating to size, length, weight and capacity.</li> </ul>	and approaches with termathematical brains thrathinking—is it long enoucan we extend it?  • Perseverance and deterchallenges are encourage Practitioners model the for e.g., 'we've got 3 squones'.  • Practitioners discuss porreal contexts and by usi	gh? What do you think? How mination in mathematical ged and modelled. thinking of maths out loud, ware plates and 2 round sition, routes and locations in ng familiar stories. periences of size changes and their everyday ways of	