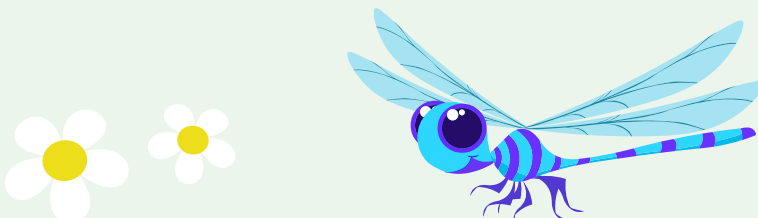




Mathematics Summary Overview	How Mathseeds helps teachers meet these needs	
	Mathseeds Lessons	Mathseeds Playroom
Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically.	Mathseeds lessons are grounded in the principles of number sense. Though lessons may focus on different areas across mathematics there are always activities to deepen number sense. This is a guiding principle. This is a feature across all lessons.	The Mathseeds Playroom includes over 120 activities. This virtual playroom focus is on open-ended tasks where learners play with numbers, shapes, patterns, number books to strengthen number sense.
Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers.	Mathseeds lessons recognise the importance of rooting number sense with a focus on 0-10. This forms the basis of the number system and ensures a strong foundation for mathematics going forward. This includes the composition of numbers to 10, linking counting and cardinality, subitising, and number bonds. <b>Lessons:</b> 1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 24, 25, 28, 30, 31, 32, 33, 34, 36, 40, 49	The Mathseeds Playroom has a focus on play. This is extremely important for young learners. This area gives them hands-on experience to establish a strong foundation. The Playroom activities encourage students to make connections between their experience of the real world and mathematical thinking. <b>Playroom activities:</b> Table: Number Icon (Numbers and numerals), Dominoes (Subitising) Balloons: Balloons (Counting), Creepy Clown (Counting and cardinality) Number Board (Number exploration) Drawing Board: Butterfly (Numerals to 10)
By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built.	Mathseeds lessons all begin with teaching videos interspersed with a range of online manipulatives for learners including moving small objects and ten frames. The lesson activities include a wide range of activities for counting. <b>Lessons:</b> 1, 2, 3, 5, 7, 8, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 24, 25, 27, 28, 30, 31, 32, 33, 34, 36, 37, 40, 41, 43, 45, 46, 48, 49, 50	
In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.	Mathseeds lesson videos demonstrate how children can develop spatial reasoning and contextualises it in spaces they know, like in the home and in playgrounds. Characters are situated in environments rich with opportunity. <b>Lessons:</b> 4, 6, 9, 13, 15, 23, 26, 29, 35, 38, 44	The Mathseeds Playroom has activities to establish strong foundations for spatial reasoning skills. These skills are critical in both mathematics and in early reading skills. <b>Playroom activities:</b> Playmat: Patterns (Formation), Making shapes (Identifying in different orientations in the environment)
It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.	Mathseeds lessons give learners the opportunity to play in a low-risk environment. Multiple attempts can be made on all activities in lessons. The automated feedback includes phrases like, "Not quite" to acknowledge an error. This fosters a "Give-it-a-go" atmosphere which is essential for young, impressionable learners. This is a feature across all lessons.	The Mathseeds Playroom gives learners autonomy to choose activities in a low-risk environment to foster a positive association with mathematics. It also offers opportunities for young children to connect mathematics to their everyday lives, for example, sing along with familiar nursery rhymes that reinforce counting and simple mathematical concepts.

		Mathseeds Lessons			Additional Mathseeds Resources	
The EYFS Statutory Framework	Non-statutory Guidance	Content and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
		Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
<b>ELG: Number</b> <i>Children at the expected level of development will:</i>						
Have a deep understanding of number to 10, including the composition of each number;	Count objects, actions and sounds.	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 33			DT Number 1, 2, 3 Data 1	Reception Number Tests 1, 2
	Link the number symbol (numeral) with its cardinal number value.				DT Number 4	
	Explore the composition of numbers to 10.	22, 31, 32, 34				
Subitise (recognise quantities without counting) up to 5;	Subitise.	21, 24, 28, 30, 32, 34			DT Operations 2, 6	
Automatically recall number bonds up to 5 and some number bonds to 10, including double facts.	Automatically recall number bonds for numbers 0–5 and some to 10.	24, 31, 34, 36, 40, 49			DT Operations 1, 3, 7	Reception Operations Tests 1, 2, 3, 4
<b>ELG: Numerical Patterns</b> <i>Children at the expected level of development will:</i>						
Verbally count beyond 20, recognising the pattern of the counting system;	Count beyond ten.	41, 43, 45, 46, 48, 50			DT Number 11-25	
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;	Compare numbers.	22			DT Number 8	Reception Number Test 3
	Understand the ‘one more than/one less than’ relationship between consecutive numbers.	25, 28				
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	Continue, copy and create repeating patterns.	8, 27, 37			DT Patterns 1-9	Reception Number Test 4
	Select, rotate and manipulate shapes to develop spatial reasoning skills.	4, 6, 9, 15, 23, 35, 44			DT Geometry 5, 6, 8	Reception Geometry Tests 1, 3
	Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.	13, 26			DT Geometry 12	Reception Geometry Test 4
	Continue, copy and create repeating patterns.	27, 37				
	Compare length, weight and capacity.	13, 26, 29, 38			DT Measurement 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16	Reception Measurement Test 1, 2, 3, 4, 5