Nursery Mathematics SOL

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Getting to know you Routines	Recognising	ours s, naming and ng colours	Matching objects to	ching g different those that e same.	Sorting b attril	y various	Number and Place Value Understanding Number 1	Va Subiti Understand	and Place lue sing 2 ling number	Patt Continuing	tern AB patterns
Spring	Number a Val Subitis Understanding 3.	ue ing 3 g the number	Number al Valu Understan numbe Compositi	ding the	Number a Va Understa numl Composi	lue	Long, sh	and Height nort, tall and ring lengths	Light and	ight heavy and arison	Capa Full, half f and com	ull, empty
Summer	My Day Ordering events of the day. Sequencing.		Positional I Using languag position and	e related to	Comparing	paring amounts of ects. fewer.		hape. BD shape.	compo	nber osition. s to up 5.	What one before, One more/ to	/ after?

Nursery Mathematics Medium Term Plan

	Autumn	
Week	Focus	Additional
Week 1	Getting to know you	
	Take time to get to know the children and introduce them to routines.	
Week 2	<u>Colours</u>	The Usborne Big Book of Colours
	Children should be taught to recognise and name colours in a variety of	Monsters Love Colors - Mike
	contexts e.g. toys within the classroom, colours in nature, colours in the	Austin
Week 3	environment, matching colours, colours on themselves such as hair, skin, clothes. Children should be able to say when objects are and are not the	BBC - Colourblocks
	same colour. Link to expressive art and design through painting.	Key Vocabulary: notice, match, same, colour
		Same, colour
Week 4	<u>Matching</u>	That's not my
	Children to match items by shape (numicon,) size, colour, length, height and	A pair of socks – Stuart J
Week 5	pattern. Children should be able to identify items that are the exactly the same, similar and different.	Murphy
		Simon Sock - Sue Hendra
		Exactly the opposite- Tana Hoban
		Key Vocabulary: matching, same, different, pairs.

Week 6	Sorting	Sort it Out! - Barbara Mariconda
	There should be a focus on reasoning within sorting i.e how have you sorted the animals/button etc? Children should be given the opportunity to sort the objects by their own rules and should be	Sorting at the market - Tracey Steffora
Week 7	taught how to communicate that rule. This should be explored in many different contexts such as shapes, different coloured and size objects, different animals, objects found in the environment,	White Rose - Just like me (match and sort section)
	appearance of various objects and people. Children should be taught to verbalise what is the same and what is different between sets of objects.	Key Vocabulary: sort, notice, groups, sets, same, different
Week 8	Number and Place Value	Numberblocks - Season 1 episode
	Number 1	1
	• Counting to 1	
	· Finding 1 object	123 at the Zoo - Eric Carle
	1 being the first number, its position on a number line, ordinal numbers	
	· Numicon 1	I'm number 1 - Michael Rosen
	• Dice 1 • Subitising 1	
	Subitising 1Representing 1 on a 5 frame	One Bear at Bedtime - Mick
	• A circle - 1 sides shape (including in the environment)	Inkpen
	• 1 action e.g. 1 hop, 1 jump, 1 clap	'
	• The numeral 1	
	· Number 1 in the environment	
	Representing 1 using marks, pictures and finger	
	Matching numeral to quantity	

Week 9	•	
	Number and Place Value	Numberblocks Season 1 episode 2
	Number 2	and episode 3
	• Counting to 2	•
Week 10	 Finding 2 objects 2 being the second number, its position on a number line, ordinal numbers Numicon 2 Dice 2 	The little bear and the Wish Fish - Debi Gliori
	 Subitising 2 Representing 2 on a 5 frame 	
	• 2 action e.g. 2 hops, 2 jumps, 2 claps	
	The numeral 2Number 2 in the environment	
	 Representing 2 using marks, pictures and fingers Matching numeral to quantity 	
Week 11	<u>Pattern</u>	Pattern Fish - Trudy Harris
	Developing an awareness of pattern helps children to notice and	Lots and lots of Zebra Stripes -
	understand mathematical relationships. Children should initially be taught	Stephen R. Swinburne
Week 12	to continue an AB pattern. Children need the opportunity to see a pattern, talk about what they can see and to continue a pattern. At first, they may do this one object at a time e.g. red cube, blue cube, red cube verbalising	https://nrich.maths.org/13250
	the pattern helps. Children may then be asked to say what they would add	Key Vocabulary: pattern, continue
	next to continue it.	notice, next
	Continuing an AB pattern	
	Copying an AB pattern	White Rose - Just like me
	Make their own AB pattern	(pattern section)
	Spotting an error in an AB pattern	Y

Additional Stories Suitable for Autumn Term

Where's My Teddy/It's The Bear - Jez Alborou	ıgh
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The Bear In The Cave - Michael Rosen

Peace At Last - Jill Murphy

Seaweed Soup - Stuart J Murphy

Clean Up Everybody - Stacey Sparks

Beep Beep Vroom Vroom - Stuart J Murphy

The Button Box - Margarette S Reid.

Duck In the Truck - Jez Alborough

Dear Zoo - Rod Campbell

Mr Big - Ed Vere

Naughty Bus - Jan Oke

Crash Boom - Robbie R Harris

A New House For Mouse - Petr Horacek

The Right Place for Albert - Daphne Skinner

	Spring	
Week	Focus	Additional
Week 1	Number and Place Value Number 3	Numberblocks Season 1 episode 4
	 Counting to 3 Finding 3 objects 3 being the third number, its position on a number line, ordinal numbers Numicon 3 Dice 3 	Pink Tiara Cookies for Three- Maria Dismondy
Week 2	 Subitising 3 Representing 3 on a 5 frame 3 action e.g. 3 hops, 3 jumps, 3 claps The numeral 3 Number 3 in the environment Representing 3 using marks, pictures and fingers Matching numeral to quantity Triangle has 3 sides 	Three Little Firefighters - Stuart J Murphy
Week 3	Number and Place Value Number 4	Numberblocks Season 1 episode 6
	 Counting to 4 Finding 4 objects 4 being the fourth number, its position on a number line, ordinal numbers Numicon 4 Dice 4 	Number Farm - Stephen Holmes Pete the cat and his 4 groovy buttons - Eric Litwin
Week 4	 Subitising 4 Representing 4 on a 5 frame 4 action e.g. 4 hops, 4 jumps, 4 claps The numeral 4 Number 4 in the environment Representing 4 using marks, pictures and fingers Matching numeral to quantity Squares and rectangle. 	Witches Four - Marc Brown

Week 5	Number and Place Value	Numberblocks season 1 episode 7
	Number 5	·
	• Counting to 5	Kipper's birthday - Mick Inkpen
	 Finding 5 objects 	, , , , , , , , , , , , , , , , , , , ,
) A	• 5 being the fifth number, its position on a number line, ordinal numbers	5 little friends - Sarah Dyer
Week 6	Numicon 5	3 III II Gillas Gal all Byel
	• Dice 5	The Very Hunery Catennillan
	Subitising 5	The Very Hungry Caterpillar -
	• Representing 5 on a 5 frame	Eric Carle
	• 5 action e.g. 5 hops, 5 jumps, 5 claps	
	• The numeral 5	
	 Number 5 in the environment 	
	 Representing 5 using marks, pictures and fingers 	
	Matching numeral to quantity	
	Pentagon	
Week 7	<u>Length and Height</u>	Key Vocabulary: long, short, tall,
		longer than, shorter than, taller
	In the first stage, children should be able to apply the attribute of long,	than
	short, tall etc to various examples (e.g. a bus is long; an adult is tall; grass	
	is short). Adults should be continuously modelling this language. The	The is
	children should then move on to finding objects that are longer/shorter	longer/shorter/taller than the
Week 8	than a given item. They should be encouraged to utilise strategies such as	
	direct comparison (e.g. placing objects side by side to determine which is	-
	longer). When comparing length and height verbally children should be	Titch - Pat Hutchins
	encouraged to use language such as 'taller than/longer than/shorter than'.	THEN TUTTUTENING
		Tall Tan Albanassala
	When comparing lengths directly children need to ensure that they align	Tall - Jez Alborough
	the starting points and compare like-for-like (e.g. straightening skipping	
	ropes before comparing lengths).	Jim and he Beanstalk - Raymond
		Briggs

Week 9 Week 10	Meight Initially, begin with identifying objects the children think may be heavy - use lots of adult modelled language. Move on to comparing weights. One way to identify this is to identify that a heavier object creates a greater downwards pull. Ask children to hold a carrier bag; encourage them to notice if it feels as though their hand is being pulled down when something heavy is put in it. Place a carrier bag in each hand and identify which one is heavier by discussing which arm feels more pulled down. Explore the link to the balance scales to show that the heavier side goes down. Exemplify this with a see-saw 'What can we do to make this side of the see-saw go down?'. Ensure that children are presented with large but light objects and small but heavy objects to prevent the generalisation that big means heavy and small means light.	Key vocabulary: Heavy, heavier than, light, lighter than, balanced The is heavier than/lighter than the Who sank the boat - Pamela Allen Balancing Act- Ellen Stoll Walsh
Week 11	Capacity	Key vocabulary: full, half full, empty, most, least
Week 12	Children should be given daily opportunity for sand and water play which can provide lots of opportunities to explore capacity. Children should be able to identify when a container is empty and full and extend to half full. Initially children should be exposed to the comparison of full, half full, empty using the same container. However, this can be moved on by talking about different size containers (e.g. I wonder whose pot will hold the most water?' When comparing capacities directly children can pour from one container to another to find which holds more or less water.	The container is full/half full/empty. The holds the most/least water.

	Summer	
Week	Focus	Additional
Week 1	My Day Children should explore talking about and ordering the events of their day	Key vocabulary: first, next, then, last
	such as waking up, coming to school, dinner, bed time. Encourage the vocabulary of first, next, then and possibly last.	Mr Wolf's Week - Colin Hawkins
Week 2		
Week 3	Positional Language Children need opportunities to be exposed to and to use the language of position and direction; Position: 'in', 'on', 'under'. Direction: 'up', 'down',	Key vocabulary: in, on, under, up, down, across, in front of, behind, on top of.
	'across' Children also need opportunities to use terms which are relative: 'in front	The is (position) the
Week 4	of, 'behind', 'on top of'. Create as many opportunities as possible to explore this language such as hunting for hidden objects with some prompts (e.g. look behind the shed).	We're going on a bear hunt - Michael Rosen
		Each peach pear plum - Alan Ahlberg

Week 5 Week 6	Children need progressive experiences where they can compare collections and begin to talk about which group has more things. When talking about amounts of objects use the language of more and fewer. Children should initially be taught perceptual comparing (comparing without counting). Initially, the groups need to be very obviously different (e.g 2 objects and 7 objects). Move on to collections of small numbers of objects that are similar (e.g 1 and 3 objects) and then move onto different items but same quantity (using language of same or equal).	Key vocabulary: compare, more, fewer, same, equal There are more than / there are fewer than
Week 7 Week 8	Shapes - 2D and 3D The primary focus in relation shapes should be on the properties of shapes. For example, children should be encouraged to notice and describe shapes in the environment and talk about the properties using words such as 'straight/flat/round/curved'. When teaching the names of shapes, wherever possible, real life shapes in the environment should be used. Note that only flat surfaces should be referred to as faces. Include sorting of natural shapes; the children may sort stones, for example, into sets that have straight edges, sets that have curved edges.	Key vocabulary: edge, curve, straight, round, flat, sides, face, corner, smooth Circle/Triangle - Mac Bennett and Jon Klassen The Mr Men Stories - Roger Hargreaves Round is the Moon Cake - Roseanne Thong
Week 9	Number Composition up to 5 Children should deepen their understanding of numbers to 5 by learning different compositions. Children recognising that the amount is still the	One big hippo balancing - BBC song.

Week 10	same even if the items are in different orientations. They are beginning to recognise and use practical resources to explore number bonds to 5.	
Week 11	What comes before/ after? One more/ one less	Nursery rhymes which count back from 5.
Week 12	Children to be able to recall what is one more and one less than a given number to 5. They should explore number tracks and other resources that involve adding or subtracting one item. They should build a number line by ordering numbers to 5 and stating which number is next in the sequence at	
	that it is one more. They should be able to identify one less and count back from 5 explaining this relationship.	