Story of E Primary of Hold

Reception Maths Medium Term Plan – Spring 1

How is Maths taught in Reception?

Self registration – children add picture to tens frames. How many children are here? How many children are away?

Date – days of the week song, count up to the date number.

Daily nursery rhymes – number links

Daily Maths lesson – Review, Teach, Practise in groups, Apply 3x Number

2x Shape, Space, Measures

Number Sense – 5 mins daily

Maths opportunities within the environment as part of continuous and enhanced provision

Mathematics								
Number								
Link the	Link the	Link the number symbol (numeral) with its	Link the number symbol (numeral) with its	Compare numbers.	Explore the			
number	number	cardinal number value. (numbers 9-10)	cardinal number value. (numbers 9-10)	(smallest/largest/smaller/larger/more/less)	composition			
symbol	symbol	tens frame.			of numbers			
(numeral)	(numeral)		Compare numbers.	Understand the 'one more than/one less	to 10.			
with its	with its	Compare numbers.	(smallest/largest/smaller/larger/more/less)	than' relationship between consecutive				
cardinal	cardinal	(smallest/largest/smaller/larger/more/less)		numbers (to 10)				
number	number		I can subitise to 5 with greater reliability.					
value.	value.	I can subitise to 5 with greater reliability.		I can subitise to 5 with greater reliability.				
(numbers	(numbers							
6-8)	6-8)							
Introduce								
tens	I can							
frame.	subitise to							
	5 with							
can	greater							
subitise to	reliability.							
5 with								

greater reliability.				
Numerical	l Patterns			
Continuing an ABC pattern Continuing a pattern which ends midunit Make their own ABB, ABBC patterns	Spotting an error in an ABB pattern I can continue, copy and create			Beginning to identify doubles to 10.
Spatial Aw	objects.			
Spatial Av	Use 2D shapes to make a picture. Select, rotate and manipulate shapes to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have othe shapes within it, just as numbers can.	Compare length , weight and capacity.	Compare length, weight and capacity.	Compare length, weight and capacity.

Wee	Focus Skills and	Link to End of Year	Possible activities	Enhancements	Key vocabulary
k	Knowledge	Objectives			
1	Link the number symbol (numeral) with its cardinal number value. (numbers 6-8) Introduce tens frame. I can subitise to 5 with greater reliability. Continuing an ABC pattern	Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5	Power Maths Unit 7 — Numbers to 10 STRUCTURES AND REPRESENTATIONS Ten frame: The ten frame helps children visualise 10. It will also help strengthen children's fluency with numbers up to 10, demonstrating how they can be arranged in different ways but still be worth the same amount. Multilink cubes: Multilink cubes provide a physical representation of an amount, which children can handle and move as they count and compare. Counters: Counters are used for the first time to represent objects being counted. They can be placed in the ten frame or lined up in a row.	Maths Area Encourage the children to think about where we see 6, 7, and 8 in everyday life and to make collections of 6, 7 and 8 objects in the classroom. Sort these items into 6, 7 and 8? Enhancements to areas of learning Outdoors Go on a mini-beast hunt. Use magnifying pots to observe the creatures carefully. How many legs can they see? Provide pictures to help them identify what they find. Ask the children to make careful drawings of the creatures they find. Loose Parts Provide a range of loose parts such as buttons, beads, pebbles, shells and some ten frames. Ask the children to count 6, 7, and 8 items onto the 10 frames. How many do they have? Can they see without counting? The children may also enjoy filling large 10 frames outside. Enhancements to areas of learning Kipper's Toybox Provide a basket of toys for the children to use to re-enact the story. Take turns to 'hide' one of the toys. Can the children spot which toy is missing? How many toys are there now? What if an extra toy arrives? How many will there be now?	one, two, three, four, five, six, seven, eight, nine, ten 1,2,3,4,5,6,7,8,9,1 0 ten frame count how many? total altogether

Continuing a pattern 6, 7 and 8 Prompts for Learning which ends mid-unit Note: All the prompts for representing, comparing and composition to 5 can be applied to 6, 7, and 8 Guidance Make their own ABB. Begin with a story such as Six Dinner Sid. How many Children continue to apply the counting principles when times do they meet 6? Ask the children to make houses counting to 6, 7 and 8. They represent 6, 7, and 8 in ABBC patterns to represent Sid's street. Can they number the doors and different ways and can count out the required number of order the houses from 1 to 6? objects from a larger group. What if we added another house? And another? Arranging 6, 7 or 8 items into small groups will support the children to conceptually subitise and see how the numbers How many legs does a ladybird have? are made up of smaller numbers. How many spots? E.g. I know it is 8 because I see 4 and 4 Do you know any other creatures with 6 legs? Encourage the children to order and compare their Use counters to add 6 spots to the other ladybirds. representations, noticing the one more/less patterns as Can you find more than one way to do it? they count on and back to 8 Other Resources Six Dinner Sid - Inga Moore ow many colours do you see in the rainbow? Kipper's Toybox - Mick Inkpen Can you paint a rainbow with 7 colours? Sidney the Silly Only Eats Six - M W Penn Can you make rainbows using objects around the Anno's Counting Book - Mitsumasa Anno classroom? How many colours did you use? What the Ladybird Heard - Julia Donaldson Can you find the rainbow in Anno's counting book? 2 Link the number Have a deep 6, 7 and 8 Power Maths Unit 7 – Numbers to 10 **Loose Parts** symbol (numeral) with understanding of Provide a range of loose parts such as buttons, Maths Area beads, pebbles, shells and some ten frames. Ask its cardinal number number to 10, the children to count 6, 7, and 8 items onto the Encourage the children to think about 10 frames. How many do they have? Can they including the value. (numbers 6-8) Prompts for Learning 6, 7 and 8 where we see 6, 7, and 8 in everyday life see without counting? The children may also and to make collections of 6, 7 and 8 enjoy filling large 10 frames outside. Note: All the prompts for representing, comparing and composition of objects in the classroom. composition to 5 can be applied to 6, 7, and 8 Guidance Sort these items into 6, 7 and 8 Begin with a story such as Six Dinner Sid. How many I can subitise to 5 with each number. Enhancements to Children continue to apply the counting principles when How else could you show 6, 7, and 8? times do they meet 6? Ask the children to make houses counting to 6, 7 and 8. They represent 6, 7, and 8 in to represent Sid's street. Can they number the doors and areas of learning greater reliability. different ways and can count out the required number of order the houses from 1 to 6? objects from a larger group. Outdoors | Kipper's Toybox What if we added another house? And another? Subitise (recognise Arranging 6, 7 or 8 items into small groups will support the Provide a basket of toys for the children to Go on a mini-beast hunt. children to conceptually subitise and see how the numbers How many legs does a ladybird have? use to re-enact the story. Take turns to 'hide' Spotting an error in an quantities without are made up of smaller numbers. Use magnifying pots to observe the How many spots? one of the toys. Can the children spot which E.g. I know it is 8 because I see 4 and 4 creatures carefully. How many legs can they Do you know any other creatures with 6 legs? toy is missing? How many toys are there ABB pattern counting) up to 5 Encourage the children to order and compare their see? Provide pictures to help them identify Use counters to add 6 spots to the other ladybirds. representations, noticing the one more/less patterns as now? what they find. Ask the children to make Can you find more than one way to do it? they count on and back to 8 What if an extra toy arrives? I can continue, copy careful drawings of the creatures they find. How many will there be now? Other Resources and create repeating Six Dinner Sid - Inga Moore low many colours do you see in the rainbow? patterns with 2 or more Kipper's Toybox - Mick Inkpen Can you paint a rainbow with 7 colours? Sidney the Silly Only Eats Six - M W Penn Can you make rainbows using objects around the objects. Anno's Counting Book - Mitsumasa Anno classroom? How many colours did you use? What the Ladybird Heard - Julia Donaldson Can you find the rainbow in Anno's counting book?

count forwards/backwa rds same, different odd one out more, fewer group

next continue repeat unit of repeat cube round pattern size shape colour bigger smaller same different tall short stripes squares

seven, eight,
nine, ten
1,2,3,4,5,6,7,8,9,1
0
ten frame
count
how many?
total
altogether
count
forwards/backwa
rds
same, different

odd one out

one, two, three,

four, five, six,

	1		1		1		
							more, fewer
			0	Key Questions			group
			Digging Deeper	How do you 6 here?			
			Dot Plates	How do you see 6 now? What do you notice when you try to make pairs with 7?			next
			Show the children 6, 7 and 8 on a ten frame or in a 10- hole egg box. Can they see how many without needing to	How many are hidden now? How do you know? Can you draw a picture to show me?			continue
			count in ones? Encourage the children to build 6, 7 and 8 onto the 10	Can you show me with these cubes?			repeat
			frames in pairs – what do they notice? Compare the 5-wise and pair-wise patterns for each	Composition of 6,7,8			unit of repeat
			number. What's the same and what's different?	Provide each child with a blue 'pool' and 8 fish. Ask them to			cube
			5-wise patterns	arrange their fish into pairs.			round
			How Many Now?	Ask the children what they notice. Ask the children to arrange their fish in a different way and to discuss the			pattern
			Count out 6 cubes with the children and then cover them	different compositions of 8 that they notice.			size
			so they can't be seen. Add one or two more cubes. How many are there now?	Encourage them to explore the composition of 6 and 7 in a similar way.			shape
			What if we took one or two cubes away? Encourage the children to make jottings or to use their fingers to help them solve the problem.	You can vary the contexts. For example, cars in a car park, horses in a field, ladybirds on a log.			colour
			ingers to help them solve the prodem.				bigger
							smaller
							same
							different
							tall
							short
							stripes
							squares
3	Link the number	Have a deep	Power Maths Unit 8	Comparing	9 and 10	Class Book	more,
	symbol (numeral) with	understanding of			Outdoors	Make a class counting book with a double page spread for each number 1 to 10	fewer/fewest
	its cardinal number	number to 10,	numbers within 10		Provide a starting line. Ask the children to	Stick in drawings or photographs of objects the children have collected. Discuss the different	greater/greatest
	value. (numbers 9-10)	including the			take 9 giant steps, 9 tiny steps, 9 jumps, 9 tiptoes etc. How far do they travel each	ways the children have represented each	smaller/smallest
	tens frame.	composition of			time? Who can travel the furthest in 9 giant steps? Who can travel the shortest		large/largest
		each number.			distance with 9 tiny steps? Enhancer areas of	earning	taller/tallest
	Compare numbers.					Provide a selection of bricks in different sizes and	shorter/shortest
	(smallest/largest/smalle	Subitise (recognise			Outdoors Outdoors	shapes. Ask the children to make the tallest possible tower using 10 bricks.	compare
	r/larger/more/less)	quantities without			Ask the children to build a wall and set up 10 green bottles. Each time a bottle 'accidently	Which bricks will they choose? How will they place their bricks to make the tower	how many?
		counting) up to 5			falls' ask the children how many have fallen and how many are standing.	as tall as possible?	how many more?
	I can subitise to 5 with				Do they always have 10 in total?		different/differen
	greater reliability.	Compare					ce
		quantities up to 10					
	Use 2D shapes to make	in different					puzzle
	a picture.	contexts,					triangle, square
	Select, rotate and	recognising when					fold/open
	manipulate shapes to	one quantity is					count
	develop spatial	greater than, less					how many?
	reasoning skills.	than or the same					build
	Compose and	as the other					turn
ı	decompose shapes so	quantity.					same/different

that children recognise Prompts for Learning 9 and 10 a shape can have other Note: All the prompts for counting to earlier numbers can be applied to counting to 9 and 10, in addition to these ideas. Guidance Show me 10 fingers. Now show me 9 shapes within it, just as Children continue to apply the counting principles when Did you need to count your fingers? counting to 9 and 10 (forwards and backwards) Show me 10 beads on the bead string. Show me 9 numbers can. They represent 9 and 10 in different ways. Arranging 9 or 10 Show me 10 cubes on the 10 frame items into small groups will support the children to What do you notice? conceptually subitise these larger numbers and explore their Show me 9 cubes. What do you notice this time? Show me 9 cuoes. Trink Could you put 9 or 10 buttons on the composition. (E.g. I know it is 9 because I see 3, 3 and 3) Children notice that a 10 frame is full when there is 10. They can use 10 frames, fingers and bead strings to subitise groups of 9 and 10 Hold up a number card. Ask the children to show the corresponding number of fingers or to do the corresponding number of actions. Ask the children to help you order the Other Resources digit cards from 1-10 and make deliberate mistakes. Can the children spot these and correct you? There are many other books which focus on counting to 10 If you hide a card, can they work out which number is How do Dinosaurs Count to 10? - Yolen & Teague missing? One Gorilla - Atsuko Morozumi Mouse Count - Ellen Stoll Walsh Ask the children to count out 9 or 10 small objects. Nine Naughty Kittens - Linda Jenny Can they find different ways to arrange their items? Feast for 10 - Cathryn Falwell What do they notice? Numberblocks Series 2 - 9 and 10 **Digging Deeper Key Questions** What shapes can you build? Is there more than one way to make this shape? Combining Shapes What shapes can you make by joining 2 squares? By joining 2 rectangles? Ask the children to investigate which shapes they can make by combining squares, rectangles and Can you fill this shape leaving no gaps? triangles in different ways. **Matchstick Shapes** Can you build a small square, a medium square Use matchsticks to build squares and rectangles and a large square? You could draw outlines for What is the smallest square you can make? the children to fill initially. How many matchsticks did you use? What is the largest? What shapes did you use to make your squares? Can you count all of the matchsticks you used? Is there a different way to build the same shape? What is the smallest number of matchsticks needed Can you build a square using rectangles? to build a rectangle? How do you know it is square? Can you build a rectangle using squares? How do you know it is a rectangle? Link the number Have a deep 9 and 10 **Power Maths Unit 8 – Comparing** Class Book symbol (numeral) with understanding of Make a class counting book with a double page spread for each number 1 to 10 numbers within 10 Outdoors its cardinal number number to 10, Stick in drawings or photographs of objects the Provide a starting line. Ask the children to children have collected. Discuss the different take 9 giant steps, 9 tiny steps, 9 jumps, 9 value. (numbers 9-10) including the ways the children have represented each tiptoes etc. How far do they travel each number. time? Who can travel the furthest in 9 **Prompts for Learning** composition of 9 and 10 giant steps? Who can travel the shortest Enhancements to distance with 9 tiny steps? Note: All the prompts for counting to earlier numbers can be Compare numbers. each number. applied to counting to 9 and 10, in addition to these ideas. areas of learning Guidance Show me 10 fingers. Now show me 9 Construction (smallest/largest/smalle Children continue to apply the counting principles when Did you need to count your fingers? Provide a selection of bricks in different sizes and counting to 9 and 10 (forwards and backwards) Show me 10 beads on the bead string. Show me 9 r/larger/more/less) shapes. Ask the children to make the tallest Subitise (recognise They represent 9 and 10 in different ways. Arranging 9 or 10 Show me 10 cubes on the 10 frame Outdoors possible tower using 10 bricks. items into small groups will support the children to What do you notice? Ask the children to build a wall and set up 10 Which bricks will they choose? quantities without conceptually subitise these larger numbers and explore their Show me 9 cubes. What do you notice this time? green bottles. Each time a bottle 'accidently How will they place their bricks to make the tower composition (F.g. I know it is 9 because I see 3.3 and 3) Could you put 9 or 10 buttons on the falls' ask the children how many have fallen as tall as possible? I can subitise to 5 with counting) up to 5 Children notice that a 10 frame is full when there is 10. They 10 frame without counting them? and how many are standing. can use 10 frames, fingers and bead strings to subitise Do they always have 10 in total? groups of 9 and 10 greater reliability. Hold up a number card. Ask the children to show the corresponding number of fingers or to do the corresponding number of actions. Ask the children to help you order the Compare Other Resources digit cards from 1-10 and make deliberate mistakes. Can the children spot these and correct you? Use 3D shapes to make quantities up to 10 There are many other books which focus on counting to 10 If you hide a card, can they work out which number is How do Dinosaurs Count to 10? - Yolen & Teague a structure, showing an in different One Gorilla - Atsuko Morozumi Mouse Count - Ellen Stoll Walsh Ask the children to count out 9 or 10 small objects. understanding of basic contexts, Nine Naughty Kittens - Linda Jenny Can they find different ways to arrange their items? Feast for 10 - Cathryn Falwell What do they notice? Numberblocks Series 2 - 9 and 10 properties (stack, roll...) recognising when

one quantity is

greater than, less

more,

fewer/fewest

large/largest

taller/tallest

compare

ce

puzzle

count

fold/open

how many?

how many?

greater/greatest

smaller/smallest

shorter/shortest

how many more?

different/differen

triangle, square

		than or the same	3-D Shape	Prompts for Learning	3-D Shape
		as the other quantity.	Guidance Children will naturally explore and manipulate 3-D shapes through their block play and modelling. Prompt them to consider which shapes stack and which shapes roll and why that is. They should be given opportunities to build using a variety of shapes and to construct their own 3-D shapes in different ways. Children can be introduced to the names of the shapes and be given opportunities to explore similarities and differences between them as they play and to sort them according to what they notice. Other Resources Mouse Shapes – Ellen Stoll Walsh Rapunzel – Traditional The Princess and the Pea – Traditional Changes Changes – Pat Hutchins	Hold up an object for example a crisp tube or a cereal box. Which of the 3-D shapes is this like? Why is it like this? What other items have this shape? Show the children a collection of 3-D shapes. Choose one of the shapes. Ask the children to tell their partner as many things as they can about the shape. Can they find another shape like this? Can they find a different shape? How is it different? Sort the shapes into groups. Ask: 'Why did you put these shapes together? How is this set different to this one? Is there another way we could sort them?' Which shapes would you use to build Rapunzel's tower? Can you add a staircase? Which shapes would you use at the bottom of the tower? Which shapes would you use at the top?	Paint Show the children a print made from a 3-D shape. What shape is the print? Which 3-D shape could have made this print? Is there more than one? Which of the 3-D shapes could you use to print a triangle or a square? Can you print a pattern using the shapes? Modelling Provide a variety of empty boxes, tubes, lids etc. Ask the children to make a model for a particular purpose. E.g. Build a bridge for the 3 Billy Goats, a new chair for Baby Bear. Encourage them to tell you about their model. Which shapes were easy to fasten together? Which shapes were difficult to fasten together?
5	Compare numbers.	Have a deep	Comparing Numbers to 10	Prompts for Learning	Comparing Numbers to 10
	(smallest/largest/smalle	understanding of	Guidance	Ask questions to make comparisons for a real purpose. Are more children having sandwiches or dinners?	Provide a se them into s
	r/larger/more/less)	number to 10,	Children continue to make comparisons by lining items up	Which book shall we read today? Can you place a cube to vote for	Provide the children with a collection of
		including the	with 1-1 correspondence to compare them directly or by counting each set carefully and comparing their position in	your favourite?	items to sort. Encourage the children to With the sort the items into sets and then domino eacl
	Understand the 'one	composition of	the counting order. As the children's sense of number develops so does their	As you and the station appropriately a property of the station in different	compare the quantity in each set. with the Can you find a set with more than this
	more than/one less than' relationship between consecutive	each number.	knowledge of where each number sits in relation to other numbers. They understand that when making comparisons	As you read the stories, compare the quantities in different parts of the story. E.g. in Cockatoos, are more birds hiding	one? Can you find 2 sets with the same quantity?
			a set can have more items, fewer items or the same number of items as another set.	in the bathroom or in the attic?	areas of learning
		Subitise (recognise	They begin by comparing 2 quantities and progress to ordering 3 or more quantities.	Grab a handful of buttons. Ask the children to guess how many	Finger Gym
		, ,		you could be holding and then count them out onto a 10 frame to see. How many buttons can they hold in one	Make a caterpillar by threading some beads onto a pipe cleaner. Ask the ch
	numbers (to 10)	quantities without	Other Resources	hand? Compare their handful to their friends.	Ask the children to make caterpillars with more beads and fewer beads than you. (Butterbe nice for the nice
		counting) up to 5	Cockatoos – Quentin Blake Mr Magnolia – Quentin Blake	Use cubes to build towers from 1 to 10. Can the children order the towers?	Which caterpillar is the longest? name ha Which is the shortest? fewer lette
	I can subitise to 5 with		Ten Black Dots – Donald Crews The Napping House – Audrey Wood & Don Wood	What do they notice? Can they see that each number	Can we arrange the caterpillars in order?
	greater reliability.	Compare	Engines Engines – Lisa Bruce & Stephen Waterhouse	is one more than the number before?	Length and Height
		quantities up to 10	Length and Height	Prompts for Learning	Provide a the children
	Compare length,	in different	Guidance	Opportunities for comparing length or height will arise naturally through the children's talk as they play. They may	Build a tower or a road. Challenge the children piece of rill piece of r
	weight and capacity.	contexts,	Children begin by using language to describe length and	compare the height of their towers or length of their roads, or see who has the longest scarf, or who can thread the	to build a tower the same height as yours, a shorter tower, a taller tower. A longer road, a than and
		recognising when	height, e.g. the tree is tall, the pencil is short. When making direct comparisons, they may initially say	longest string of beads.	snorter road. How tall is the tallest tower they can build? They could
		one quantity is	something is bigger than something else. Encourage them to use more specific mathematical vocabulary	Support each child to make a paper 'footprint'. Can they find items which are longer than their foot, shorter, about	Can they build beds or chairs for Daddy Bear. Mummy Bear and Baby Bear?
		greater than, less	relating to length (longer, shorter), height (taller, shorter), and breadth (wider, narrower)	the same size? Can a small group arrange their footprints in size order by making direct comparisons?	Enhancements to
		than or the same	Encourage the children to make indirect comparisons	Provide a selection of measuring items for the children to	Small World Provide materials for the children to
			using objects such as blocks or cubes to measure items. E.g. The sand tray is 4 blocks long. The table is 5 blocks	explore. E.g. rulers, tape measures, trundle wheels, height charts. The children may also like to create their own height	construct bridges for the cars. They will need Encourage to consider how language
		as the other	long. The sand tray is shorter than the table.	charts and tape measures and use them to measure items inside and out.	high they want their bridges to be and select which blocks to use.
		quantity.	Other Resources	0 1 2 3 4 5 6 7 6 9 6 11 11 11 11 11	They could also investigate who can push A th
			The Giraffe who got a Knot – John Bush		their car the furthest? Show me the

The Giraffe who got a Knot - John Bush

Titch - Pat Hutchins

Tall - Jez Alborough

Jack and the Beanstalk - Traditional

Jim and the Beanstalk - Raymond Briggs

Construction

e pictures of buildings such as palaces, mosques, city-scapes. dren to discuss the shapes they can see in the buildings? e the children to design their own dels and to extend these by

hes, bridges and moats. 🥌

build turn same/different

more,

Dough (

he children to make 3-D shapes using the dough. Which shapes are the easiest to make? Why?

Maths Area of dominoes. Can the children sort ets of dominoes with 7 spots, more spots and fewer than 7 spots? oairs, play Who Has More dominoes face down, choose one and compare the spots. The player most spots can keep the pair.

Mark Making

ldren to build or write their name. ans with individual letters on are is.) How many letters does their ve? Do they have more letters, rs or the same number of letters as their friend?

Workshop

variety of ribbon, lace, string. Ask en to cut pieces and make direct isons with a given length (E.g. a bon taped to the table) Can they engths into the same as, longer shorter than the given length? also line the lengths up in order om longest to shortest.

Dough

he children to use mathematical relating to length as they play. an you make a long snake? A short snake? A thick snake? A thin snake? Show me the longest snake you can make. How

many blocks long is your snake?

fewer/fewest greater/greatest smaller/smallest large/largest taller/tallest shorter/shortest compare how many? how many more? different/differen ce

large/larger/large bigger/biggest small/smaller longer/longest shorter/shortest tall/taller/tallest further/furthest length same, different, equal measure compare

ich are harder to make? Why? w did you make the flat sides?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

How will they measure this?

Provide pots and soil and seeds for the children to plant. Encourage them to find ways to measure, compare and record the height of their plants as they grow.

		How Far Can You Throw? Give each child a small object such as a bean bag or welly. In small groups or pairs, challenge the children to throw the object as far as they can. Who has thrown their item the furthest? How could we check? Encourage the children to discuss and try different ways to find this out. For example they could count strides or heel-to-toe footsteps or use a trundle wheel. Prompt them to use the language of further, nearer and closer. Encourage them to record their distances using their own methods. Have another throw – did they manage to throw their item further this time?	Key Questions Who has thrown their item the furthest? How could we check? Have another go – Did you throw it further this time? How do you know? Who is the tallest person? How do you know? How many bricks measure the same height as you? Towers In a small group put the children into pairs and ask them to build a tower the same height as their partner. Can they order their towers from shortest to tallest? Encourage the children to draw their friends and towers and to record how many bricks there are in each tower. Prompt them to use the language of shortest, shorter than, taller than and tallest as they compare their towers and friends.			
6 Explore the composition of numbers to 10. Compare length, weight and capacity.	Have a deep understanding of number to 10, including the composition of each number. 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	understand that two or more things combine to make a whole.	Counters: Using sets of differently coloured counters supports children's understanding of pasic addition facts; that two or more amounts can be combined to make a whole. Multilink cubes: Multilink cubes are excellent for demonstrating number and size relationships and to count and compare. Pers, multilink cubes, part-whole models of flowers, tissue paper, similar objects for ed toy cars), sets of items for sorting (apples and in paint pots, piles of large and small stones, toy	Modelling Ask the children to create homes or containers for different sized soft toys or small world creatures. What size and shape will they need for an elephant? A giraffe? A mouse? Can their friends guess who is inside? Sand and Water Provide equipment in 2 distinct sizes. For example, a big bucket and a little bucket, a tall jug and a short jug. Encourage the children to compare the objects and to explore how many scoops each will hold. They could also count how many large scoops and how many small scoops a container will hold.	Encourage the children to build using long and short blocks. Which type of blocks will they choose for their models? Is it easier to build a road using long or short blocks? Can they build a long road and a short road, a tall tower and a short tower. Which type of block will balance on its end most easily?	count part whole altogether how many? total 1,2,3,4,5,6,7,8,9,1 0 addition adding together counting more, fewer heavy/heavier/he aviest light/lighter/light est same different amount weight equal balanced balance scale estimate check

measure

compare

double

equal groups

double facts

doubling

different

how many?

altogether

half, halving

full, nearly full,

not full, half full

empty, nearly

empty, half

more, most

nothing, none

fill, pour, empty

same, equal

measure

compare

check

less, least

empty

more

same

share

Compare Size, Mass & Capacity Prompts for Learning Start by showing the children a mystery box. This could be very small or very large or very tall and thin. Guidance Ask the children to predict what could be inside. The children learn that objects can be compared and Could they fit inside the box? Why not? ordered according to their size. What else could or could not fit into the box? Encourage the children to use language such as big Compare to a contrasting shaped/sized box. and little, large and small to describe a range of objects in the classroom. More specific language such Prepare a picnic basket for a teddy bear's picnic. as tall, long and short could also be introduced. Include plates, cups, spoons, hats, napkins etc. of two Encourage children to compare and order objects by different sizes. You will also need 2 bears - a big bear size in the different areas of provision and to use the and a little bear. Unpack the basket and discuss which vocabulary to explain what they notice. size item would be best for which size bear Other Resources Hide a selection of large balls and small balls around the Where's My Teddy - Jez Alborough outside area. Ask the children to go on a ball hunt and It's The Bear - Jez Alborough Dear Zoo - Rod Campbell collect all the balls they find. What do they notice? Can they sort the balls into 2 buckets - large balls and A New House for Mouse - Petr Horacek small balls? Which balls are easier to catch and which Mr Big - Ed Vere are harder? My Cat Likes to Hide in Boxes - Eve Sutton Beginning to identify Automatically Prompts for Learning Doubling Doubling Outdoors allow the children to explore different ways to build doubles doubles to 10. recall (without Have number shapes hidden around the using real objects and practical equipment Guidance Maths Area outdoor area. reference to The children will learn that double means 'twice as many'. They Give each child a number shape and ask them Play snap or matching pairs games using should be given opportunities to build doubles using real objects to find another one the same to make a Compare length, weight rhymes, counting pictorial playing cards or dot cards. and mathematical equipment. Building numbers using the pairdouble. Encourage them to say the double they Encourage the children to say the doubles wise patterns on 10 frames helps the children to see the doubles. have found, e.g. Double 5 is 10_ Mirrors and barrier games are a fun way for children to see or other aids) as they make them. The person with the and capacity. Provide sets of dominoes and ask the children to find the doubles as they build and to explore early symmetry. Encourage most doubles or pairs of cards at the end children to say the doubles as they build them, e.g. Double 2 is 4 doubles. Show the children how to play dominoes and look Enhancements to number bonds up wins the game. rovide examples of doubles and non-doubles for the children at the doubles they make as they play. areas of learning to sort and explain why. to 5 (including Play Match my Quantity Finger Gym The children sit opposite each other in pairs with a barrier Art Area Provide ladybird or butterfly templates and ask the subtraction facts) between them and a collection of small items such as Provide large paper with a fold down the middle. children to use the tweezers to make doubles by pebbles or cubes. One child sets out a quantity. They show Encourage the children to make doubles by adding adding the same number of pompoms to each and some number Other Resources their partner quickly and then hide again. Their partner blobs of paint to one side of the paper only. Then side. How many different doubles can they make? matches the quantity. Then the barrier is removed. fold the paper over to make the double. Can they Can they make one which is not a double and tell Double Trouble - Nrich Check - Is it a double? Which double have we made? bonds to 10, This is the Story of Alison Hubble - Allan Ahlberg predict how many blobs of paint there will be you why? Play Doubles Two of Everything – Lilly Hong Double Dave – Sue Hendra altogether if they start with 3 blobs? including double The children take turns to roll 2 dice. Double the Ducks - Stuart J Murphy They score a point each time they roll a double. facts Numberblocks Series 2 Episode 9 - Double Trouble The first to reach 3 points wins the game. Outside Compare Size, Mass & Capacity Set up an area where the children can dig and provide large and small spades and garden trowels. You can also provide Modelling **Power Maths Unit 18 - Measure** different sized containers for the children Ask the children to create homes or to fill and empty. Which containers are containers for different sized soft the easiest to carry? Wheelbarrows Compare Size, Mass & Capacity Prompts for Learning toys or small world creatures. What might also prove popular! art by showing the children a mystery box. This could size and shape will they need for an be very small or very large or very tall and thin. elephant? A giraffe? A mouse? Enhancements to Guidance Ask the children to predict what could be inside. Can their friends guess who is inside The children learn that objects can be compared and areas of learning Could they fit inside the box? Why not? ordered according to their size. Construction What else could or could not fit into the box? Encourage the children to use language such as big Sand and Water Compare to a contrasting shaped/sized box. Encourage the children to build using and little, large and small to describe a range of Provide equipment in 2 distinct sizes. For long and short blocks. Which type of objects in the classroom. More specific language such Prepare a picnic basket for a teddy bear's picnic. example, a big bucket and a little bucket, blocks will they choose for their models? as tall, long and short could also be introduced. Include plates, cups, spoons, hats, napkins etc. of two a tall jug and a short jug. Encourage children to compare and order objects by Is it easier to build a road using long or different sizes. You will also need 2 bears - a big bear Encourage the children to compare the size in the different areas of provision and to use the short blocks? Can they build a long road and a little bear. Unpack the basket and discuss which objects and to explore how many scoops vocabulary to explain what they notice. and a short road, a tall tower and a short size item would be best for which size bear each will hold. They could also count tower. Which type of block will balance how many large scoops and how many on its end most easily? Other Resources small scoops a container will hold Hide a selection of large balls and small balls around the Where's My Teddy - Jez Alborough outside area. Ask the children to go on a ball hunt and It's The Bear - Jez Alborough Dear Zoo - Rod Campbell

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collect all the balls they find. What do they notice? Can they sort the balls into 2 buckets - large balls and

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