

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

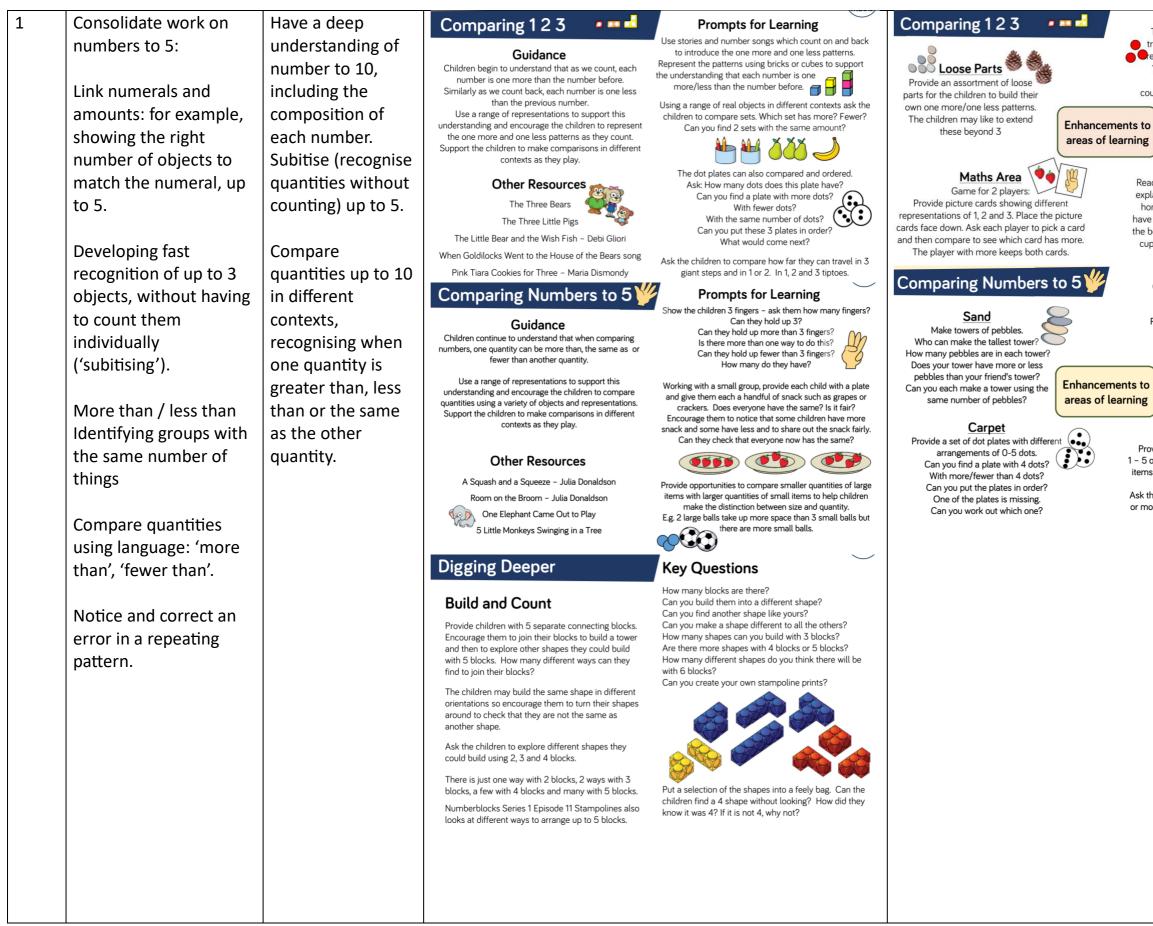
Mathematics				
Number				
Consolidate work on numbers	I understand the 'one more	Number bonds to 5	Number bonds to 5	Number bonds to 5
to 5:	than/one less than' relationship between	Part–whole: identifying smaller numbers within a	Part–whole: identifying smaller numbers within a	Part–whole: identifying smaller numbers within
Link numerals and amounts: for	consecutive numbers.	number (conceptual	number (conceptual	number (conceptual
example, showing the right		subitising – seeing groups	subitising – seeing groups	subitising – seeing grou
number of objects to match the numeral, up to 5.		and combining to a total)	and combining to a total)	and combining to a tota
		Explore the composition of	Explore the composition of	Explore the composition
Developing fast recognition of		numbers to 5.	numbers to 5.	numbers to 5.
up to 3 objects, without having				
to count them individually				Inverse operations
('subitising').				
More than / less than				
Identifying groups with the				
same number of things				

ng mathematical problems with numbers up to 5.

Compare quantities using language: 'more than', 'fewer than'.				
Numerical Patterns				
Notice and correct an error in a repeating pattern.			Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' <i>Daily</i> <i>routine</i>	
Spatial Awareness				
	Developing spatial vocabulary Shape awareness: developing shape awareness through construction Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Identify some 2D and 3D shapes in the environment around me.	Developing spatial vocabulary Shape awareness: developing shape awareness through construction Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Identify some 2D and 3D shapes in the environment around me.		Make simple compariso between objects relatin size, length, weight and capacity

Wee	Focus Skills and	Link to End of Year	Possible activities	Enhancements	Key vocabulary
k	Knowledge	Objectives			

sons ing to id	Make simple comparisons between objects relating to size, length, weight and capacity



🦻 Maths Area

Teach the children simple number track games and encourage them to eate their own. Roll a dice and collect 1, 2 or 3 counters to fill their track. Compare - who has the most counters? How many more counters do they need to fill their track?



Role Play



Read children the story of the 3 bears explain that we need to set the table in the home corner ready for breakfast. Do we have enough plates, cups and spoons for all the bears? Provide small, medium and large cups, bowls and spoons to compare and match to the bears.

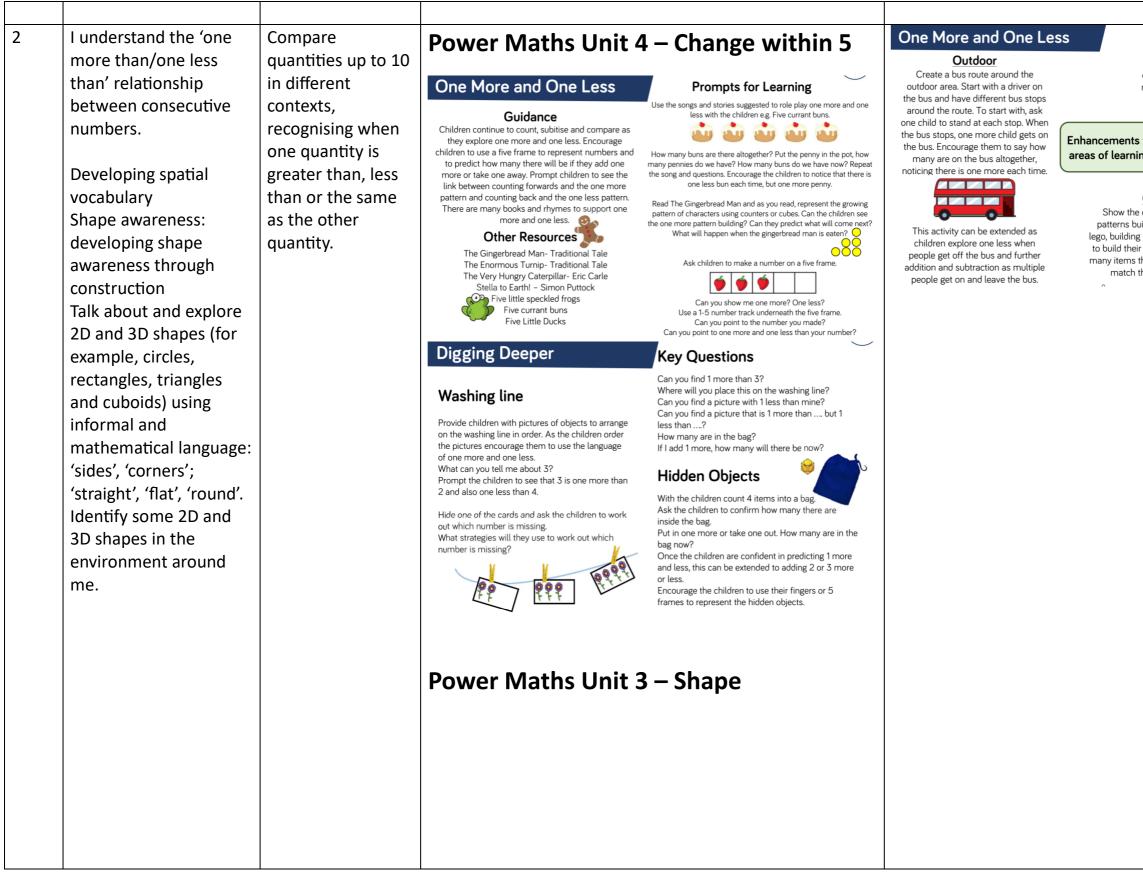


Provide children with the numbers 1 – 5 on cards and various small, similar items such as people, toy cars, plastic animals, etc.

Ask them to show you fewer, the same or more than the number they choose.

1,2,3,4,5, one, two, three, four, five, none, zero number count – count forwards, count backwards how many? five frame first then now one less one more order fewer take away add altogether number story five frame represent

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



Maths Area

Provide numerals, objects and picture cards for the children to compare. Have a number of the day and ask the children to find one more and less than the number using different representations.

Number of the day is 3		
One less	The same as	One more
,ø*,ø*	×*	
	2	

Construction

Show the children one more staircase patterns built with different materials e.g. lego, building blocks, bricks. Encourage them to build their own staircases looking at how many items they use for each step. Can they match them to the number track?

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squares

one, two, three, four, five 1,2,3,4,5 none, zero count – forwards and backwards how many? first then now one less one more order fewer take away add altogether

roll stack curved straight round corners face edge sides square, rectangle, circle, triangle sphere, cube, cuboid, cylinder, cone big, little flat, pointy same different

ſ	3	Number bonds to 5	Automatically	Power Maths Unit 5 – Numbe	er bonds Composition of 1 2 3
	C	Part–whole: identifying smaller numbers within a number (conceptual subitising – seeing groups and combining to a total) Explore the	recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number	within 5 Composition of 123 Guidance Introduce children to the idea that all numbers are made up of smaller numbers. Allow them to explore and notice the different compositions of 2 and 3. For example 3 can be composed of 1 and 1 and 1 or 2 and 1 or 1 and 2.	Ser bonds Game Play The 3 Billy Goats Gruff game. Set up a bridge and 2 fields. Each player builds a 1,2 and 3 tower to represent the 3 goats. Roll a 1-3 dice and move the corresponding tower over the bridge. The winner is the first player to move all 3 'goats' over the bridge. Encourage the children to notice how many animals could go in and different ways to do this? had 1 or 2 animals? Image: Composition of T22 Grades the child to count out 3 double-em in their hand and then drop me red? How many are yellow? Data and the drop me red? How many are yellow? Image chalk circle on the ground. Ask the children to collect 3 quoits and to take turns to throw them into the circle.
		composition of numbers to 5.	bonds to 10, including double facts	children may choose to notice and explore the composition of larger numbers in their play. Encourage them to share what they have noticed.	all red? All yellow? How many land inside the circle? How many land outside? How could they record their scores?
		Developing spatial vocabulary Shape awareness: developing shape awareness through construction Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Identify some 2D and 3D shapes in the environment around me.	Have a deep understanding of number to 10, including the composition of each number	them on top o Other Resources BBC Number blocks 1, 2 and 3 The Three Billy Goats Gruff Number Farm - Stephen Holmes them on top o Play I Using 2 hands to be the show 1, 2 and 3? Can you Can you make ears the sa	f the whole number. Bunny Ears ears, how many ways can you isee what number I have made? me as mine? Can you make the r in a different way?

Maths Area

Provide a set of dominoes. Ask the children to find all the dominoes with 1, 2 or 3 spots. How many dominoes have 1, 2 and 3 spots altogether?

Are they all the same? How many dominoes can they find with 1, 2 or 3 spots on one side.





Fill a tuff tray with an assortment of wood, autumn leaves and seeds. Hide several ladybirds (painted pebbles) for the children to find. How many spots do the ladybirds have? Do all the ladybirds with 3 spots look the same? one, two, three, four, five 1,2,3,4,5 group parts whole part-whole model how many? count more than same different

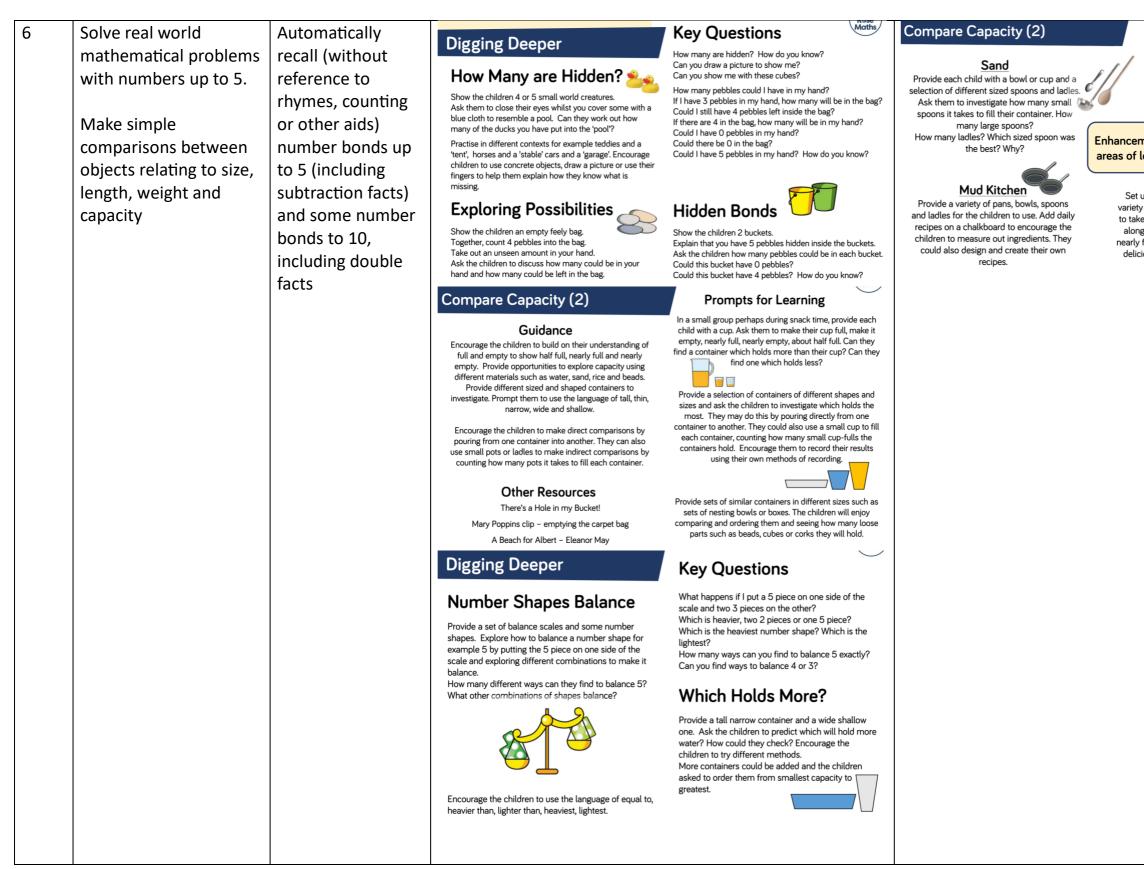
roll stack curved straight round corners face edge sides square, rectangle, circle, triangle sphere, cube, cuboid, cylinder, cone big, little flat, pointy same different

4	Number bonds to 5 Part-whole: identifying smaller numbers within a number (conceptual subitising – seeing groups and combining to a total) Explore the composition of numbers to 5. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' <i>Daily routine</i>	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 Have a deep understanding of number to 10, including the composition of each number	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>	Composition of 4 and 5 Water Set up a log and pool and provide 5 speckled frogs for the children to re-enact the song, Encourage the children to sing the song as they play and to count how many frogs are on the log and in the pool at the end of each verse. Dutdoors Provide 4 children with 2 hoops labelled yes and no. Children take turns to ask questions and sort themselves into the hoops. For example: Do you like carrots? Have you got a sister? Can you find a question which sorts the children into 4 and 0?
5	Number bonds to 5Part-whole: identifyingsmaller numbers withina number (conceptualsubitising - seeinggroups and combiningto a total)Explore thecomposition ofnumbers to 5.Inverse operationsMake simplecomparisons betweenobjects relating to size,	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 Have a deep understanding of number to 10, including the	Power Maths Unit S within 5 STRUCTURES AND REPRESENTATIONS Part-whole model: This model helps children visualise bonds to 5, understanding that pairs on umbers combine to make a total of 5. Output Output </td <td>Multilink cubes: Multilink cubes provide a</td> <td>Compare Mass (2) Dough Add a set of balance scales to the dough area and encourage the children to compare the weight of different size balls. To provide further interest, encourage the children to use loose parts to balance the dough on the scales. Cose Parts Provide a set of balance scales and an assortment of loose parts to compare. Encourage the children to use the mathematical vocabulary of heavier than and lighter than as they compare the different items.</td>	Multilink cubes: Multilink cubes provide a	Compare Mass (2) Dough Add a set of balance scales to the dough area and encourage the children to compare the weight of different size balls. To provide further interest, encourage the children to use loose parts to balance the dough on the scales. Cose Parts Provide a set of balance scales and an assortment of loose parts to compare. Encourage the children to use the mathematical vocabulary of heavier than and lighter than as they compare the different items.

Number Shapes Use the number shapes to investigate which smaller numbers combine to make exactly 4 or 5. Check by sitting them on top of the whole number. Is there more than one combination? Which number has the most combinations?	one, two, three, four, five 1,2,3,4,5 group parts whole part-whole model
Construction Provide cubes in 2 different colours. Ask the children to build a tower of 5 Compare the towers. What is the same? What is different? How many different towers can you build? What if you make towers of 4 cubes?	how many? count more than same different
	first
	next
	later
	then
	before
	after
	every day
	order
	timetable
	sequence
Post Office Provide a selection of wrapped parcels of	one, two, three,
various shapes and sizes. Ask the children to compare parcels to see which are heavier	four, five
and lighter than others. Can they find the heaviest parcel?	1,2,3,4,5
Can they find the lightest? Are larger parcels always heavier?	group
	parts
arning	whole
Outside	part-whole model
Provide buckets with strong elastic bands attached to the handle. Ask the children to	how many?
hold the elastic band and watch how far it stretches when they add an item to their	count more than
bucket. What do they notice when they add a heavy item? A light item?	same
	different
	large/larger/large st
	big/bigger/bigges t

length, weight and	composition of	Compare Mass (2)	Prompts for Learning	
capacity	each number	<section-header><section-header><section-header><section-header><text><text></text></text></section-header></section-header></section-header></section-header>	<text><text><text></text></text></text>	

small/smaller/sm
allest
longer/longest
shorter/shortest
tall/taller/tallest
further/furthest
heavy/heavier/he
aviest
light/lighter/light
est
same, different
length
width
height
weight
measure
compare



Outside	one, two, three,
Provide a small matchbox for each child. Ask them to hunt for things to put inside.	four, five
Points could be awarded for specific criteria such as the most items, the prettiest leaf,	1,2,3,4,5
the smallest pebble, the largest item, the softest item, something yellow etc.	group
	parts
ncements to s of learning	whole
	part-whole model
Role Play 📃 🗐 🗍 Set up a pop-up café or picnic area providing a	how many?
variety of jugs and beakers. Encourage the 'waiters' to take drinks orders and bring out the drinks. Play	count
alongside the children to model the language of nearly full, half full, nearly empty etc and enjoy your	more than
delicious drinks! (Discuss why we don't want the cups to be absolutely full!)	same
	different
	large/larger/large
	st
	big/bigger/bigges
	t
	small/smaller/sm
	allest
	longer/longest
	shorter/shortest
	tall/taller/tallest
	further/furthest
	heavy/heavier/he
	aviest
	light/lighter/light
	est
	same, different
	length
	width
	height
	weight
	measure
	compare