Getting Started With Numicon Firm Foundations









Where to start?

- What are your school expectations for planning- long term, weekly etc.
- What does Numicon have to support this?
- Activity cards A and B:
 - A has ideas to integrate Numicon throughout the day
 - B is counting based activities, great for warm ups
- Numbered cards:
- Teach over 2 weeks
- Contain everything you need!
- How do I plan with the activity cards?
 Start with language/communication
 Pull out my ideas
 - A and B activities
 - 'Activities with structured apparatus'
 - Independent activities and provocations



Record in my planning (next slide)



children here

here are

children not





Long-lenn planning

The long-term planning chart provides the recommended order for the activity groups. Activity Groups A and B (Daily maths opportunities and Daily counting activities) are a flexible planning tool. They contain ideas for incorporating meaningful mathematics into everyday practice.

Activity Group Number	Activity Group Title	Space, Shape and Measures Focus
A	Daily maths opportunities	No single focus
В	Daily counting activities	No single focus
1	Introducing Numicon Shapes	Size
2	Introducing number rods and ordering Numicon Shapes	Height and length
3	Introducing Numicon Shape patterns and number rod trays	2D and 3D shapes
4	Linking Numicon Shapes with numbers and numerals, and comparing number rods	Capacity
5	Securing links between numerals, Numicon Shapes and patterns, and ordering number rods	2D and 3D shapes
6	Finding how many by grouping, and teen numbers	Length
7	Using Numicon Shape patterns and teen numbers	Lengths of number rods, weight
8	Adding with Numicon Shapes	Time (night and day)
9	Adding one more	Money
10	Taking away with Numicon Shapes	2D and 3D shapes
11	Subtracting one and adding one with number rods	Opposites
12	Halving and sharing	2D and 3D shapes
13	Adding – parts and wholes	Weight
14	Subtracting – parts and wholes	Positional language
15	Connecting adding, subtracting and number lines	Length and distance
16	Halving and doubling	2D and 3D shapes
17	Subtracting – finding the difference	Capacity, height
18	How many more, how many fewer, how much less?	Money
19	Exploring adding and subtracting, and sequences	Height, length, time

Medium-term planning

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The medium-term planning chart provides the recommended order for the activity groups, along with Activity Groups A and B which are designed to be used every day. Learning opportunities and the activities with structured apparatus have been listed, but each activity group also includes a range of creative ideas for exploring maths in every environment across the setting. The shape, space and measures focus has been provided for each activity group using the abbreviation 'SSM focus'.

Daily maths opportunities	
ivities with structured apparatus as for using structured apparatus are incorporated bughout this activity group.	Learning opportunities A broad range of learning opportunities to demonstrate the relevance of maths to other aspects of school life and develop fluency in counting and calculating.
Daily counting activities	
tivities with structured apparatus eas for using structured apparatus are incorporated oughout this activity group.	 Learning opportunities Within their counting range: Recite the conventional count sequence forwards and back, starting from any number. For a given number, say the next or previous number. Understand that we count to find out 'how many'. Count a collection of objects accurately, saying one number name for each object. Understand that the last number counted tells us how many there are. Relate counting forwards and back to a number line. Have a sense of where to find a given number on a number line. Develop strategies for counting accurately. Make a reasonable estimate of the number of objects in a collection. Count in twos, fives and tens.
1: Introducing Numicon Shapes SSM focus: Size	
Activities with structured apparatus 1: Introducing the Numicon Shapes 2: Naming the Numicon Shapes by colour 3: Matching Numicon Shapes to the Numicon Number Line 4: Cover the Numicon Baseboard with Numicon Shapes 5: Cover the Numicon Baseboard – feeling for Shapes 6: Cover the Numicon Baseboard – using fewer Shapes 7: Playing with Numicon Shapes and Picture Overlays	 Learning opportunities To recite the count sequence in the conventional order. To count objects using one number name for each object counted. To become familiar with the Numicon Shapes and their colour names. To notice the order of Numicon Shapes. To cover the Numicon Baseboard with Numicon Shapes by matching and manipulating them to fill the available spaces. To use the language of size and make simple size comparisons, e.g. big and small.

Daily maths opportunities



This activity group contains a variety of activities that can be incorporated into the routine of the school day. These will support Activity Groups 1–19 and should be referred to regularly throughout the year. As this activity group covers a wide range of numeracy skills, and is intended to support children's learning rather than introduce new concepts, there are no assessment or learning opportunities listed. Instead, the aims are more general: to demonstrate the relevance of maths to other aspects of school life and to allow children greater opportunities to develop fluency in counting and calculating.

Throughout the school day children encounter many opportunities for meaningful counting, adding, subtracting, sharing, doubling and halving, in a range of contexts. These provide a wonderful resource for helping children to practise their counting skills, develop their mathematical communicating – in particular their communicating about number ideas – and recognize that they (and adults) use maths every day in real life. As children encounter these everyday problems, encourage them to explain how they might solve them, using, e.g. Numicon Shapes or number rods, a number line or a number relationship that they know.

Ask children to talk about when and why we need to count things during the school day. Suggestions might include counting at register time to find out how many children are at school, counting to find out how many children are having a school meal, counting to find out how many pieces of fruit are needed at snack time, and so on. Discuss children's suggestions and the need to count accurately.

Adults play a crucial role in showing children how to count accurately in a variety of ways and how to work out simple problems involving adding and subtracting. Modelling the language regularly will allow children to hear it and gain confidence in using it appropriately and independently.

Daily counting activities



Children receipt to count every day, for a variety of purposes and in a variety of ways. This activity group provides a menu of activities to help children learn how, why and when to count and to maintain their interest in counting. Along with Daily maths opportunities (activity group A), which suggests ways of incorporating mathematics into daily class routines and activities, it is a key component of Numicon Firm Foundations: both are used throughout the year alongside the other activity groups. Note that the points listed in the Learning opportunities and Assessment opportunities sections on this card are specific to counting activities, and are not necessarily repeated in the other activity groups.

In counting, it is important to monitor two key aspects of children's progress: first, the development of their verbal counting range and second, their ability to count objects accurately.

Initially, children learn to recite numbers in order ('verbal counting'), before recognizing the patterns in our numbernaming system. They usually enjoy this and revel in extending their verbal counting range as they begin to master these patterns; however, a considerable amount of time and experience are usually needed before they understand what counting is *for*.

As children's use of number words develops, they gain a sense of 'cardinality', that is, of the numerical size of a collection or how many things are in it. They begin to make sensible estimates of the number of objects in a group and develop strategies for counting objects accurately.

Numicon Number Lines provide visual support for this learning: the sequence of Numicon Shapes shows how numbers increase or decrease in size in equal steps (that is, it illustrates the cardinal values and the successor relation between numbers). This lays the foundation for children to make connections, later in the year, between the patterns of increase and decrease on the number line and adding and subtracting.

Key mathematical ideas

Before teaching this activity group, refer to the key mathematical ideas in the Teaching Guide:

Contrasting, Comparing, Equivalence, Order, sequences and direction, One-to-one correspondence, The successor relation, Counting, Grouping and place value, Zero, Adding, Subtracting, Reasoning and logic

Activity Group

-

Learning opportunities

Within their counting range:

- Recite the conventional count sequence forwards and back, starting from any number.
- For a given number, say the next or previous number.
- · Understand that we count to find out 'how many'.
- Count a collection of objects accurately, saying one number name for each object.
- Understand that the last number counted tells us how many there are.
- Relate counting forwards and back to a number line.
- Have a sense of where to find a given number on a number line.
- Develop strategies for counting accurately.
- Make a reasonable estimate of the number of objects in a collection.
- · Count in twos, fives and tens.

Assessment opportunities

Look and listen for children who:

- Recite number names in the conventional order (forwards) (note children's counting range).
- Recite number names forwards and backwards, from any number within their counting range.
- Say the number that comes after and before a given number.
- Count when they need to find out 'how many'.
- Use a counting strategy (moving or rearranging objects).
- Count objects accurately, saying one number name for each object counted (note children's counting range).
- Know that the last number counted tells how many are in a set.
- Have a sense of where to find a given number on a number line.
- Count a collection of objects and know they will have the same number if they count them in a different order.
- · Make reasonable estimates of collections of objects.
- Recite the count sequences of twos, fives and tens.

Using the activity groups

Activity Groups 1–19 follow the structure detailed below. Activity Groups A and B are structured differently so they can be used throughout the school year and provide suggestions for introducing maths into all the elements of the school day.





Introducing number rods and ordering Numicon Shapes



-logige Forwards, badwords thas many Mor, less, Same -big small -long, tail, short. -days-yest. todg, terrory. -first, last. book. and

create their own pictures and images for 'one'. Children need the fine motor skills to record their ideas. Refer to guidance on supporting children with writing numerals on page 15 of the Teaching Guide.

Shape, space and measures focus: height and length The activities extend children's vocabulary relating to height and length, and encourage them to apply familiar terms about position and time, e.g. before, after, first, next, to ordered objects and events, e.g. using a visual timetable to talk about their day.

At this stage, encourage children to explore the number rods for themselves. They may describe and compare them in terms of colour and size, perhaps arranging them in order; linking them with number ideas comes later. Decide together on suitable colour names for the rods, e.g. (in order, shortest first) white, red, light green, pink, yellow, dark green, black, brown, blue, orange, and use these **consistently**

Key mathematical ideas

Before teaching this activity group, refer to the key mathematical ideas in the Teaching Guide: Contrasting, Comparing, Order, sequences and One-to-one correspondence, The successor rel Part-whole relationships, Counting, Measure and space, Reasoning and logic oquage

Communicating

Use the following words and terms and listen for children

number names (one, two, three, ...), number, count, forwards, backwards, how many?, words for comparing quantity (e.g. more, fewer, less, same), words for comparing size (e.g. big, bigger, biggest, same size, small, medium, large), words for comparing length and height (e.g. long, longer, tall, taller, short, shorter), year, week, day, yesterday, today, tomorrow, fimetable, first, last, before, after, next, between, order

Learning opportunities

- To recite the count sequence up to 10.
- To compare and order Numicon Shapes by size.
- To describe the positions of ordered Numicon Shapes in relation to each other.
- To begin to explore relationships between number rods and to learn their colour names.
- To compare and order three or more objects of different sizes, including by height

Assessment opportunities

Look and listen for children who:

- Show understanding of the words and terms for communicating in what they say and do.
- Use structured apparatus to communicate their ideas.
- Put the Numicon Shapes in size order.
- Identify the bigger/biggest, smaller/smallest, larger/largest Shape by touch from the Feely Bag.
- Use the colour names for each number rod.
- Order three or more objects of different sizes, different heights/lengths.

Day 2 day, independent Activities with

All doing maths together

Select from the activities suggested in:

 Activity Group A: Daily maths opportunities Activity Group B: Daily counting activities

Norm ups

Also:

Activity Group

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· Count forwards with children while pointing to Numicon Shapes and/ or numerals on the Display Number Line. When they are confident, extend to counting back.

Shall we point to the Shapes or the numerals or number words while we count today?

- Variation: choose numbers for children to say the number that comes 'next' or 'after'; extend to 'before' and 'between'
- · Discuss what children notice about the Numicon Shapes on the Display
- A.Into who is here. chart - calendar - heights ' - tody on tube cantury to 10 fields buds
- Whisper, caust marching . - into number line.

orm ups apes on whiteboards carter fids, buds to 10 ad numbers



rads-colars lengts hugh. photos of day \$ pt in order (into view) twetse) shapes on way live.

strong Wy shares & not

Ine it What can we call the Shape that Activity 3 Comparing and ordering Numicon Shapes compared. Increased challenge choose any Shape for children to from largest to smallest. Activity 4 Which Numicon Shapes Play 'swaps': show Shapes 1-10 in

Activity 5 Which Numicon Shape is missing? (fill-the-gap) structured apparatus Have ready: Numicon Shapes Play 'fill-the-gap': show two sets of

Activity 1 Comparing Numicon Shapes - bigger and smaller

Have ready: Numicon Shapes, Numicon Feely Bag Play this often: children find the bigger of two Shapes in a Feely Bag, then repeat for the smaller Shape.

Start with very different Shapes, e.g. 10- and 2-shapes. Talk about what children can feel.

Is there a sticking-up bit? Are there lots of holes or just

a few?

Activity 2 Comparing Shapes biggest, smallest and in between

Have ready: Numicon Shapes Play this often: show three Shapes; children pick up the biggest, then smallest, then the Shape that is neither biggest nor smallest. Model making comparisons. Encourage

children to talk about, e.g. bigger, smallest, in between, middle-sized.

is neither biggest nor smallest?

Have ready: Numicon Shapes Ask children to put the Shapes in order, smallest first. Help to, e.g. find the smallest Shape, identify the next, align Shapes so they are marcased

find the next or previous Shape ask children to order the Shapes :

ave been swapped? (swaps) Have ready: Numicon Shapes

order. Children close their eyes as you swap two Shapes. They look, point to the swapped Shapes and put them back 2

Increased challenge: ask children to describe what has happened, before putting Shapes back.



rods-patterns - cords.

rod, quare (8)









Activity 7 Exploring with rods

Have readu: number rods Children explore making rod models, pictures and patterns. Talk about their work. Listen for how they describe and name the rods.

Do you have a favourite rod? How many rods do you think you have used? Can you find out?

Activity 8 Matching rods to pictures

Have ready: Numicon Feely Bag. number rods, Number Rod Picture Cards (available on the Oxford Owl website) Put only those rods that appear on a Rod Picture Card in a Feely Bag. Children complete the picture by taking rods from the Bag one at a time.

Are you feeling for a long rod or a short rod?

Activity 9 Naming the rods by colour

Have ready: Numicon Spinners with Number Rod Colours Spinner Overlays or pocket dice with Number Rod inserts (both available the Oxford Owl website), number rods

With children, spin or roll a colour, name it and find the matching rod.

What shall we call this colour? What colour is the longest rod?

Invite children to repeat regularly, using the agreed colour names.





Exploring maths all around us

Outdoor maths and physical play

- Invite children to build towers with blocks. Encourage them to talk about what they are doing, in particular about height. Listen for their use of related language, e.g. tall, taller, tallest, short, shorter, shortest. 5

Which is the tallest tower?

- · Give each of 10 children a Large Foam Numicon Shape for them to arrange themselves to show the Shapes in order, smallest to largest.
- · Invite children to use movements or poses to show tall and short, or even, e.g. tall, taller, tallest. 7
- · Invite children to take turns to 1- Quildy takes of an action or movement, cree a repeating, lengthening sequences to order touch the ground; hop, jump, t the ground, turn around ...
- Work with children to devise a sequence of warm-up exercise do in order.
- Invite children to hunt for sticks to describe and compare their s according to length.

Who has the longest stick? Can you find a shorter stick?

· Count items of equipment (e.g. tricycles, hoops, buckets) with children as they are handed out or collected in. Emphasize that the purpose of this is to find 'how many' and why this is useful, e.g. it means we know that there are enough to go around, or that we have collected in all the items that were given out.

Would everyone like a hoop? How many do we need?

How many tricycles should we have? How many do we actually

Sand, water and messy play

- Have a set of different-sized containers for children to put in order.
- Bury Numicon Shapes in sand. Children choose a Shape and see if they can find Shapes in the sand that are larger or smaller.
- · Invite children to use a net to fish a few Numicon Shapes out of the water, then place them in size order.
- · Provide rods for children to construct fences and barriers for small-world animals or vehicles in wet sand.

Encourage children to make height comparisons.

Is this animal tall or short? Is this fence taller or shorter?

What might happen if we put the animal in this pen?

= march patterns Marches different lengths. Encourage the - Stick hunt totale are

shape in plandard stopes in sand Water day - Use net to





dury the day "My family" rods (- paut our families r rods for children Stories, songs and rhymes models, repeating · Continue to read counting stories. patterns or pictures. recite number rhymes and sing How - wall display a record . I puzzles that involve number sonas with children. Use king, e.g. Russian Numicon Shapes alongside the songs and rhymes. and pictures · Share stories, rhymes and songs -the-difference, that involve repetition, e.g. Three Billy rods to put patterns. parts or pictures Goats Gruff, songs with a chorus. h image, set or Expre-Writing dout my family · When sharing other books with children, take opportunities to netic Numicon · Invite count or talk about size as they are pictures of their family. Talk Shapes and a magnetic boat about their pictures with them, explore. 10 make. encouraging them to describe and · Set out collections of objects compare the heights of the different different lengths or heights (e pencils, pieces of string, strav VISUALS for body family members. · Show children how to use rods to print small-world objects, 'towers' patterns repeating patterns onto strips of paper. with building blocks) for childr sort into groups of long and s Children could use the strips to tall and short, then count how painty matchas make simple headbands, bracelets, belts or similar. are in each group. Provide equipment for Numic Shape fishing: children use a rod and line with a magnet o it to 'catch' Shapes, in the for large, ban wated shapes are in each group. Provide equipment for Numic Games, puzzles and tabletop · Let children choose number rods to represent a group of people, e.g. a of laminated Printable Numic of laminated Printable Numic Shapes (available on the Oxto het for Uctor Play. family. Prompt them to choose rods to show the different heights. Owl websitel with Encourage them to explain their choices, describing and comparing teach has be hay up. -againse elsat the different rods. Which rods have you used for the father or mother? Why? Who is tallest? Who is shortest? Encourage children to count the rods and say how many people are in their group. (Model strategies for one-to-one counting, as appropriate, e.g. touching or moving each rod in turn while saving the appropriate number word.) Increased challenge: encourage children to compare others' groups. e.g. by asking which of two groups has more or fewer people in it. Discuss children's approaches to the medium and large sizes, e.g. teddy challenge. bears, place settings. How many people are in this

Activity Group

-

 Provide a collection of, e.g. toy animals or people. Encourage children to talk about and compare their sizes, including which are tall and which are short.

group? How many in Ella's?

has more? Whose has fewer?

Does your group have the same

number of people as Ella's? Whose

 Encourage children to explore making repeating patterns with small-world toys.

NUMICON week: 4,5 Activity Card: 2 Title: Introducing number rods and ordering numicon shapes and height and length

Communicating: Use and listen for the following: Forwards,	Learning opportunities To recite the count sequence up to 10. To compare and order Numicon Shapes by size.	Lesson breakdown: Warm up, quick mini lesson to intro concept, look at choosing board together, reinforce expectations, let children settle into their activities and play then work with 2 groups (10 minutes each max). Use activity card (activities with structured apparatus), children will use the activity in tomorrow's choosing board independently. Spend a bit of time joining the children in play. Listen and observe, take pictures.
backwards, how many, more, less, same, big, small, long, tall, short, days, yesterday,	 To describe the positions of ordered Numicon Shapes in relation to each other. To begin to explore relationships between number rods and to learn their colour names. 	Resources to make and have ready (see activity card for numicon equipment for each lesson): Scrap books, phone for photos, choosing board activities, large laminated shapes, painting materials for rods, net for water play
today, tomorrow, first last Choosing board ideas:	To compare and order three or more objects of different sizes, including by height. Assessment opportunities	Exploring maths around us: Extra indoor/outdoor activities to have ready for choosing board- twig hunt, coloured rice, sand pit, water play Ideas to continue throughout the day, fun friday activities: 'My family' -paint and record children's discussions on tallest/shortest, rods for printing patterns, writing about my family
Using activities from previous days activity cards and Feely shapes Number mat- match shapes to numbers "Swaps" Rods- pattern cards Rods box Rod game Block towers	 Look and listen for children who: Show understanding of the words and terms for communicating in what they say and do. Use structured apparatus to communicate their ideas. Put the Numicon Shapes in size order. Identify the bigger/biggest, smaller/smallest, larger/largest Shape by touch from the Feely Bag. Use the colour names for each number rod. Order three or more objects of different sizes, different heights/lengths. 	All Doing Maths Together/ Warm up: <u>Activity Group A (daily maths opportunities)</u> - calendar, hometime line up, after morning tea and lunch, snack time counting, 100 days of school, heights when we line up <u>Activity Group B (daily counting activities)</u> - counting songs daily: counting forwards and backwards to/from 10(whisper, clap, march), intro number line <u>Activity card ideas</u> :shapes on whiteboards, counting forwards and backwards, add numbers, "next" 'after' 'before' 'between' Making number line together, rods- colours, lengths heights, photos of the day- place in order, shapes on washing line NZ maths <u>https://nzmaths.co.nz/problem-solving</u> You Tube numbers: <u>https://www.youtube.com/watch?v=VIf0hH0AUCY</u>
Ordering large shapes Movement patterns (visuals) Stick hunt Shapes in	Group teaching focus for next Activities 1-6 Extension for Andre and Piper	; two weeks:

Extra: routine around pack up time and expectations

playdough Sand

Coloured rice

scoop

Water play- net to

Classroom management and lesson organisation:

- Classroom management: what will the children be doing while you teach?
- Rotations/stations/task board, what works best for you?
- How do you manage the activities?- too many at one activity? Some activities being avoided?
- ▶ How do children move around activities? Timer, tick chart, Seesaw
- Equipment: How to define a space so equipment doesn't end up everywhere!
- > Do you pack up everything or leave things out at the end of the session?

At pack up time, the Numicon corner looks like this:







Assessment:

- Think about what works for you and your tamariki as well as what requirements your school has (data gathering)
- SEA
- Activity Card B
- How/when do you find the time?
- Evidence





New Entrants Initial Assessment		ion &							
Namet									
Skill and knowledge	y/n	Comment							
Make a pattern of two coloured pegs and ask the	1.00	ALL STATE OF LEVEL							
student to:	12.03								
Copy it below yours	1000								
Continue it	100	REAL PROPERTY.							
Then make up their own using three colours.									
Recite number names in the conventional order. (Note	133	and the second							
final correct one.)		Contraction (Contraction)							
Point to/select the colour in response to verbal	10.0	1. Carrier and the second							
instruction for Numicon Pegs:	1223	Colleter Series of							
Red Blue	1000	A STATE OF THE OWNER							
Yellow	16.3	and the state of the							
Green		TRANSA BULL							
Name the colours Numicon Shapes and Cuisenaire rods:	1.00	The second second	ALL CONTRACTOR OF						
Orange	1 18	- CONFIGURATION -							
Light/pale/other similar blue		A CONTRACTOR OF STREET							
Light/pale/other similar green	1 199	- Statistics	Numicon Number Goals (Activity Gro	up B)					Nan
Turquoise	12	1 1 3 1 5 K (L)							
Purple			The second se	date	date	date	date	Notes:	1 3 10 10
Dark blue				Gene		Colle	Cale	month.	1000
Brown	1	A STATE OF STATE OF STATE	GOALS:	1.32	13.3			R. P. S.	
Black	198							1	1111
White/cream	1998		Recite the conventional count	1000	126		100	12.13	
Match Numicon Shapes to pictures	1.		sequence forwards, starting from	1998	100	1.1		1.5	
Match a Numicon Shape to its Large Foam Numicon			any number	1 1.00		1		1 32	133
Shape or large printed set.	133		Recite the conventional count			100	100	12101	
Order a set of 5 Cuisenaire rods.	1		sequence back, starting from any		119			1 1.2	
Use size of objects as a criterion for making comparisons	1000	1	number	-	1.3	- marine	-	-	
when ordering 4 different sized teddies.	12.5	19.0.2			-	-	-	1100	
Writing numerals they know on the back of this page.	1		For a given number, can say the		1	1	13	1000	
Show understanding of the words and terms in following	100	Designation in the second	next number		0.88		16	110	
spoken instructions.								1000	
Show understanding of the words and terms for			For a given number, can say the		1.18	1.38		1	
communicating in what they say and do.		A CARLENDER CONTRACT	previous number			-			12112
Indicate where the child lost focus with the above			Count when they need to find out	-	-	-		-	
activities with an *.	130		how many		Percent and	10.51	1	TRE	
Further comments:						-	-		-
	1. 26	S SPECTRUZZE	Count a collection of objects	1000					
		AND CRUSSES	accurately, saying one number	120	1			1	
	12 6.17	and the second	name for each object	1	1			18	
		a medality in	Use a counting strategy (moving or	18.84			1000		
		U CONCAR	rearranging objects)	130			10.5	1200	
			rearranging objects)	103%	1.100		100		
				-		-	-		-
			Know that the last number counted	-788				100	
			tells you how many in a set					1	
			Have a sense of where to find a			1	1	a line	
			given number on a number line	pom	NOT	1			
			Count a collection of objects and		-				

-

D AND HERE AND A DECEMBER OF	date	date	date	date	Notes:
GOALS:					
Recite the conventional count sequence forwards, starting from any number					
Recite the conventional count sequence back, starting from any number			-	196	
For a given number, can say the next number					
For a given number, can say the previous number					
Count when they need to find out how many	10	tera			
Count a collection of objects accurately, saying one number name for each object					
Use a counting strategy (moving or rearranging objects)		100			
Know that the last number counted tells you how many in a set					
Have a sense of where to find a given number on a number line	som	NUT	100		apprent for the second s
Count a collection of objects and know they will have the same number if they count them in a different order	112	- Alton			
Make reasonable estimates of collections of objects	1.0	1.11		111	
Recite the count sequence of twos, fives and tens	100	10			
Attempts to write the numbers to 10 then 20	1	147	1.15		
reads the numbers to 10 then 20					

Numicon tracking (L/O from Medium term planning in FF):

Name														
1. Intro shapes and size														
To recite the count sequence in the conventional order														
To count objects using one number name for each object counted						1								
To become familiar with the shapes and colour names			27										12	Mai
To notice the order of numicon shapes														
To cover the baseboard with shapes by matching and manipulating them to fill the available spaces				Para and						1012				
To use the language of size and make simple size comparisons												123		
2. Introducing number rods and ordering shapes and height and length	Sent Lines							- ALANA						
Count to 10												1		
To compare and order shapes by size											1			
To describe the positions of ordered Numicon shapes in relation to each other			1000											
To begin to explore relationships between number rodsand to learn their colour names									1000					
To compare and order 3 or more objects of different sizes including by height			No.											
3. Intro number shape patterns and number rod trays and 2d and 3d shapes							Carlor of the							
To recite and extend the count sequence and count collections of		100							1			1		

Resources and ideas:

- Numicon website
- Numicon Facebook page
- Instagram
- Firm Foundations including masters at the back
- Twinkl
- **Mrs Priestly ICT**
- Leslee Allen (number agents blog)





Exploring the numicon shapes today...removing one shape from the number line and seeing who can find it the fastest! Just loved how they couldn't just close their eyes but had to turn around and hide like a turtle!! 🐜







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TOP POSTS

#numiconfun

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Supertato

early_years_ideas__ • Follow



Group post by Rachelle Baker · 13 m · 🔝

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and they

NUMICON

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Physical resources I use in my classroom

- Box of Numicon equipment
- Blankets to define areas
- Individual kits
- Scrap Books
- Number mat
- Loose parts for counting, sorting, patterning, making shapes, measuring
- Sorting boxes
- Usual maths equipment- shapes, scales, teddies etc
- Bottles, cups etc for measuring and sorting
- Coloured rice
- Playdough
- ► Games- bingo, snap
- Water beads
- Sand pit
- visuals





Class displays











Let's keep in touch

I am always keen to help in any way. You are welcome to visit me and my classroom if you are local. Or, you can reach me via email.

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