Nursery Mathematics Overview

Daily Skills

Maths should not only be taught during specific maths sessions but wherever possible throughout the day. The following should be utilised to support maths teaching:

- Days of the week song and talking about the day
- General counting e.g. counting how many bananas there are in the fruit box.
- Counting songs
- Use of ordinal numbers e.g. "Sam line up first, Lilly line up second..."
- Maths games such as track counting games
- Noticing maths in the environment e.g. asking children what they notice about a tree. They
 may say it is tall, has circles on etc.
- Incorporating maths in areas of continuous provision wherever possible e.g. an activity that matches numeral to quantity in the finger gym area.
- Incorporating maths in daily routines e.g. during registration time. If there are 3 children absent the children clap 3 times. Having labels on pencil pots with a representation of a number to show how many pencils go in that pot during tidy up time. Different representations of number on the 'how many children can play here' posters.

Key language



Cardinal	The number that identifies how many there are in a set
Numeral	The written symbol for a number e.g. 1, 2, 3
Subitise	Instantly recognise a small quantity without having to count how many there are.
More and fewer; more than and fewer than	Used when talking about an amount of objects
More and less; more than and less than	Used when talking about the number e.g. 2 is less than 4.

Key representations

Five Frames	
Numicon	
Fingers	
Dice	
Cubes	
Numerals	1 2 3 4 5
Real life objects	
Number Blocks	
Drawing	(A) (A) (A) (A)



Autumn Overview

	Recognising, naming and matching colours
Geometry	Sorting by various attributes
	Continuing AB patterns
Measurement	Using the language of size
	Cycomica the Counting Drive in les

Number & Place Value

Grasping the Counting Principles

Comparing amounts of objects

Guidance

Autumn 1

Colours (2 weeks)	Recognising, naming and matching colours	
Sorting (2 weeks)	Sorting by various attributes	
Pattern (2 weeks)	Continuing AB patterns	

Recognising and naming colours

Children should be taught to recognise and name colours in a variety of contexts e.g. toys within the classroom, colours in nature, colours in the environment, matching colours, colours on themselves such as hair, skin, clothes. Children should be able to say when objects are and are not the same colour. Link to expressive art and design through painting.

Other resources

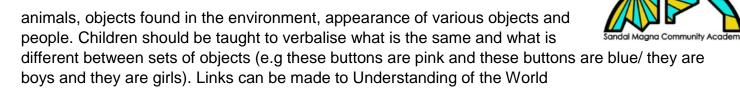
The Usborne Big Book of Colours

Monsters Love Colors - Mike Austin

Key Vocabulary: notice, match, same, colour

Sorting

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 taught how to communicate that rule (e.g. I have sorted the buttons by colour). This should be explored in many different contexts such as shapes, different coloured and size objects, different



Other resources

Sort it Out! - Barbara Mariconda

Sorting at the market - Tracey Steffora

Key Vocabulary: sort, notice, groups, sets, same, different

Pattern

Developing an awareness of pattern helps children to notice and understand mathematical relationships. Children should inititally be taught 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 the pattern helps. Children may then be asked to say what they would add next to continue it. For further progression in Pattern see **NCETM Early Years Typical Progression Chart – Pattern**.

Other resources

Pattern Fish - Trudy Harris

Lots and lots of Zebra Stripes – Stephen R. Swinburne

https://nrich.maths.org/13250

Key Vocabulary: pattern, continue, notice, next

Autumn 2

Size (1 week)	Using the language of size	
Counting Principles (2 weeks)	One-one principles, stable-order principle, cardinal principle, abstraction principle, order-irrelevance principle	
Comparing (2 weeks)	Comparing amount of objects	

Size

At this stage only focus on large/big and small/little. Use real life examples of objects that are large and small in relation to each other. Begin with objects that are vastly larger/smaller than each other and move onto objects with a smaller difference in size. Include reasoning e.g. 'do you think this large tree would fit into my small box?'

Other resources

Big Bear, Small Mouse – Karma Wilson & Jane Chapman

Key Vocab	oulary: notice, big, large, small, little	
The	is smaller/larger than the .	

Counting principles



- 1. The one-one principle this involves children assigning one number name to each objects that is being counted. Children need to ensure that they count each objects that is being counted only once ensuring that they have counted every object. Children will sometimes count objects more than once or miss an object out that needs to be counted. Encourage children to line up objects and touch each one as they count saying one number name for each object. This will also avoid children counting more quickly than they touch the objects which again shows that they have not grasped one-one correspondence. When counting pictures children should use the strategy of drawing a line through each picture as they count it. Children should be taught number names through number songs and general counting.
- 2. **The stable-order principle** children understand when counting that the numbers have to be said in a certain order. Children need to know all the number names for the amount in the group they are counting. Teachers can therefore encourage children to count aloud to larger numbers without expecting them to count that number of objects immediately. The order of numbers should be reinforced through number songs and daily counting activities.
- 3. **The cardinal principle** Children understand that the number name assigned to the final object in a group is the total number of objects in that group. In order to grasp this principle, children need to understand the one-one and stable-order principles. From a larger group, children select a given number and count them out. When asked 'how many?' children should be able to recall the final number they said. Children who have not grasped this principle will recount the whole group again.
- 4. **The abstraction principle** this involves children understanding that anything can be counted including things that cannot be touched including sounds and movements. When starting to count many children rely on touching the objects in order to count accurately. Teachers can encourage abstraction on a daily basis by counting claps or clicks.
- 5. **The order-irrelevance principle** this involves children understanding that the order we count a group of objects is irrelevant. There will still be the same number. Encourage children to count objects left to right, right to left, top to bottom, bottom to top. Once children have counted a group, move the objects and ask children how many there are. If they count them all again they have not fully grasped this principle.

Other resources

NCETM Early Years Typical Progression Chart – Cardinality and Counting Anno's Counting Book – M Anno The Very Hungry Caterpillar – Eric Carle

Key vocabulary: count, how many, total, altogether, cardinal number	
The cardinal number is	

Comparing

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 collection 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). For further progression in comparing see NCETM Early Years Typical Progression Chart – Comparison.



Key vocabulary: con	npare, more, few	er, same, equal		
There are more	than	/ there are fewer	than	

Spring Overview

Number & Place Value	Understanding Number 1
	Understanding Number 2
	Understanding Number 3
	Understanding Number 4
	Understanding Number 5
	Understanding Number 6

Guidance

Spring 1

Number One	mber One Exploring and understanding number 1	
Number Two	Exploring and understanding number 2	
Number Three	Exploring and understanding number 3	

When teaching numbers to 6 consider the counting principles at all times. Wherever possible, ensure that children are counting real-life objects. They could start by counting objects that are identical before moving on to counting objects that have slight difference e.g. different colours, different sizes, but make sure that the objects are of the same type. Encourage children to put objects in a line when counting so they have a clear start and end point. The five frame can be used to support children in lining up objects to count. It will also support children to subitise numbers within 5. Numerals may be introduced to children but they are not expected to write them at this stage. They could use drawings to represent their numbers.

Number 1

Throughout the 2 weeks the following should be explored:

- Number blocks episode 1
- Counting to 1
- Finding 1 object





- Numicon 1
- Dice 1
- Subitising 1
- Representing 1 on a 5 frame
- A circle 1 sides shape (including in the environment)
- 1 action e.g. 1 hop, 1 jump, 1 clap
- The numeral and formation of 1
- Number 1 in the environment
- Representing 1 using marks, pictures and finger
- Matching numeral to quantity

Number 2

As above but also focus on what 2 is made of (1 is a part of me, 1 is a part of me and the whole of me is 2. **Note:** do not introduce children to addition or number sentences until Reception. Also look at separating the group of objects but knowing that the total is the same.

Number 3

As above (2 is a part of me, 1 is a part of me and the whole of me is 3). Exploring different varieties and orientations of triangles.

Other resources

https://nrich.maths.org/13372

Number Blocks Series 1: One; Series 1: 2; Series 1: 3; Series 1: One, Two, Three!

The Three Little Pigs

The Three Billy Goats Gruff

Goldilocks and the Three Bears

Key vocabulary: number, numeral, subitise, represent, how many, count, cardinal,

first/second/third etc

Spring 2

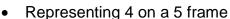
Number Four	Exploring and understanding number 4	
Number Five	Exploring and understanding number 5	
Number Six	Exploring and understanding number 6	

Number 4

Throughout the 2 weeks the following should be explored:

- Number blocks episode 4
- Counting to 4
- Finding 4 objects
- its position on a number line, ordinal numbers
- Numicon 4
- Dice 4





- Squares and rectangles, including in the environment
- 4 actions e.g. 4 hops, 4 jumps, 4 claps
- The numeral and formation of 4
- Number 4 in the environment
- Representing 4 using marks, pictures and finger
- Matching numeral to quantity
- Composition of 4 (2 is a part of me, 2 is a part of me and the whole of me is 4; 3 is a part of me, 1 is a part of me and the whole of me is 4)

Number 5

As above (3 is a part of me, 2 is a part of me; 4 is a part of me, 1 is a part of me)

Number 6

As above (3 is a part of me, 3 is a part of me; 4 is a part of me 2, 2 is a part of me, 5 is a part of me 1 is a part of me). Explain 6 as being 5 and 1 more.

Other Resources

Sesame Street: Feist sings 1, 2, 3, 4 https://www.youtube.com/watch?v=fZ9WiuJPnNA

Number Blocks Series 1: Four; Series 1: 5; Series 1: 6; Series 1: How to Count; Series 1: The Whole of Me

Key vocabulary: number, numeral, subitise, represent, how many, count, cardinal, first/second/third etc





Summer Overview

Shape & Space	Shapes
Measurement	Ordering the events of our day
	Length and Height
	Weight
	Capacity
Shape & Space	Positional Language

Guidance

Summer 1

Shapes	Focus on properties of shapes
My Day	Ordering events of the day
Length and height	Long, short, tall and comparing lengths

Shapes

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 etc.

Other Resources

NCETM Early Years Typical Progression Chart -Shape and Space

https://nrich.maths.org/13373



Key vocabulary: edge, curve, straight, round, flat, sides, face, corner, smooth *Note: This is for staff to model.*

My Day

Children should explore talking about and ordering the events of their day such as waking up, coming to school, dinner, bed time. Encourage the vocabulary of first, next, then and possibly last.

Key vocabulary: first, next, then, last Length and height

In the first stage children should be able to apply the attribute of long, 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 children should then move on to finding objects that are longer/shorter 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 encouraged to use language such as 'taller than/longer than/shorter than'. When comparing lengths directly children need to ensure that they align the starting points and compare like-for-like (e.g. straightening skipping ropes before comparing lengths).

Other Resources

NCETM Early Years Typical Progression Chart – Measures

https://nrich.maths.org/13374

Key vocabulary: long, short, tall, longer than,	shorter than, taller than
The is longer/shorter/taller than the _	

Summer 2

Weight Light and heavy and comparison	
Capacity	Full, half full, empty and comparison
Positional language	Using language related to position and direction

Weight

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.

Other Resources

NCETM Early Years Typical Progression Chart – Measures



https://nrich.maths.org/13374

Key vocabulary: Heavy, heavier than, light, lighter than,	, balanced
The is heavier than/lighter than the	

Capacity

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.

Other Resources

NCETM Early Years Typical Progression Chart – Measures

https://nrich.maths.org/13374

Key vocabulary: full, half full, empty, most, least	
The container is full/half full/empty. The	holds the most/least water.

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', 'across'*

Children also need opportunities to use terms which are relative: 'in front 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).

Other Resources

NCETM Early Years Typical Progression Chart – Shape and Space

https://nrich.maths.org/13373

Key vocabulary: in, on, under, up, down, across, in front of, behind, on	top of.
The is (position) the	





Overview

	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	(Take	ng to know this time t get to know children!)	o play w the	J	ust like me	e!	lt	's me 1, 2,	3!	Lig	ght and Da	ark
Spring		Alive in 5!		Gı	Growing 6, 7, 8		Buil	ding 9 and	d 10	Co	onsolidati	on
Summer	To 2	⁰O and Bey	yond	Fir	est, then, no	ow	Fin	nd My Patt	ern	O	n the Mov	/e

Autumn Term

Phase 1 - Just Like me							
NB links S1- how to count S1 - off we go S4-pattern p							
	Week 1	Week 2	Week 3				
	Matching and Sorting	Comparing size, mass,	Exploring patterns				
	(other book idea - 'Monkey Puzzle')	amounts, capacity					
1	Matching Buttons	Comparing size - little,	Patterns - natural objects				
	'The Button Box'	small and big, large	Repeating pattern a b a b				
2	Matching Socks	Comparing quantities -	Patterns - household				
		more, fewer, full empty	objects				
			Repeating pattern a b a b				
3	Matching buttons with	Comparing height - taller,	Patterns - Colours/shape				
	outlines	shorter, tallest, shortest	Repeating pattern a b a b				
4	Sorting Buttons	Comparing length - longer	Patterns - Fruit - errors				
	_	and sorter	Repeating pattern a b a b				
5	Sorting Natural objects	Comparing size -all vocab	Patterns - Going on a bear				
	-		hunt. consolidate				

Where's My Teddy/It's The Bear - Jez Alborough
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.



Dear Zoo



Monkey Puzzle - J.Donaldson
Frog and toad a lost button - Arnold Lobel
A squash and a squeeze - J.Don
The enormous turnip
My cat likes to hide in boxes - Eve Sutton

Noah's ark Snap games Pattern blocks Jigsaws In and out the dusty bluebells Clap your hands/ wiggles your fingers Tongue twisters, go noodle -banana banana meatball 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



	Phase 2 - It's me 1,2,3						
NB links	S1 - one another one two three	S1 - one two three S3 - zero	S1 – 3 little pigs S3 – flatland				
	Week 1	Week 2	Week 3				
	Representing 1,2,3	Composition of 1,2,3	Circles and triangles				
	(Numberblocks 1,2,3)	Comparing 1,2,3	Positional Language				
1	'Anno's counting book'	Sorting 1,2,3	Mr Rush – triangle, Mr				
	Representing 1	Comparing – Who's got	Happy - Circle - sorting				
		more?					
2	'Anno's counting book'	Sorting 1,2,3	Kandinsky,				
	Representing 2	Matching 1,2,3	Circle and triangle pictures				
3	'Anno's counting book'	Subitise 1,2,3	Going on a shape hunt				
	Representing 3	Matching 1,2,3 pic/numeral					
4	Representing 1,2,3	5 frame – count, represent	Positional language				
	Sorting 1,2,3 into groups	and add 1,2,3 (buckets)	Where's the monkey?				
5	Representing 1,2,3	Towers - 1 more	Positional language				
	Sorting/Matching 1,2,3	Hoop - Composition of 3	Rosie's walk				

1 2 3 at the Zoo - Eric Carle
I'm Number One - Michael Rosen
One Bear at Bedtime - Mick Inkpen
The Little Bear and the Wish Fish - Debi Gliori
Pink Tiara Cookies for Three - Maria Dismondy
Number Farm - Stephen Holmes
Circle/Triangle - Mac Barnett and Jon Klassen



In and out the dusty bluebells

Youtube - where's the monkey

Goldilocks and the three bears
Three little pigs Three Billy goats gruff
We're going on a bear hunt - Michael Rosen
Rosies walk - Pat Hutchins Kandinsky
Little Red Riding Hood Go noodle-tri dance

Hickory dickory dock

Goldilocks went to the house of the bears My hat it has 3 corners

Three Little Firefighters – Stuart J Murphy
Round is the Moon Cake – Roseanne Thong
Rosie's Walk – Pat Hutchins
Mrs Wishy-Washy – Joy Cowling
Me on a Map – Joan Sweeney
Each Peach Pear Plum – Janet & Allan Ahlberg

The Mr Men Stories - Roger Hargreaves

Phase 3 - Light and Dark NB songs - 5 little boats-counting and ordering 1-5, 5 speckled frogs-composition of 5, 1 less							
NB links	S1 - four five stampolines off we go	S1 whole of me terrible twos	S1 - 3 little pigs S3-flatland				
	Week 1	Week 2	Week 3				
	Representing numbers to 5	Composition of 4,5	Shapes with 4 sides/Time				
1	(4) Pete the cat and his 4	Ways to make 4,5	Subitise to 5				
	groovy Buttons - 5 frame	Counters/5 frame	Rectangles,				
			Squares/sorting				
2	(5) Kipper's Birthday	Ways to make 4,5	Subitise to 5				
	5 frame	Cube shapes	4 sided shape hunt				
3	Counting to 4/5	1 elephant came out to	Subitise to 5				
	5 frame/sorting 4,5	play	Shape pictures				
		1 more/counting to 5					
4	Representing 4	5 green bottles	Subitise to 5				
	Composition of 4	1 less	Peace at last - Day/Night				
5	Representing and	1 more/1 less	Subitise to 5				
	composition of 5 - Frogs	Hiding in a bucket	Time - First, next, last				



Washing line - Jez Alborough Anno's counting book - Mitsumasa Anno 5 little men in a flying saucer - Dan Crisp 5 small stars - Ladybird The Gingerbread Man The Enormous Turnip Mr Strong - Roger Hargreaves Bear in a Square – Della Blackstone

Fox in the Dark – Alison Green

Peace at last- Jill Murphy

Kipper's Monster – Mick Inkpen

Day Monkey, Night Monkey – Julia Donaldson

Months agree to take

The Dark, Dark Tale – Ruth Brown
Funnybones – Janet & Allen Allberg

<u> </u>		Willie Wee				
	Do you want to build a snowman? - n					
		Snowmen - Where can you see 1-5? Snowmen buttons - composition of 5				
	2	Snowflakes, snowflakes all around – matching 1–5				
		Subitise snowflakes to 5 Matching pairs - 1-5				
	3	Wrap up warm – sorting into categories				
		Sorting summer/winter clothes				
	4 Dashing through the Snow - Positional language/Time					
		Journey map of teddies walk - First, then, next, last				
	5	Special Delivery - Matching numeral to amounts				
		Posting letters to the correct number				

Spring Term

Phase 4 - Alive in 5									
	Numberblocks links: (S1-Stampolines -Whole of me, -terrible 2's,-holes,-hide and seek)(53 -Once upon a time,								
-NB express	-NB express, -fruit salad -zero) NB songs - 5 little boats-counting/ordering 1-5, 5 speckled frogs-composition of 5/1less, Hen house hop								
	Week 1	Week 2	<u>Week 3</u>						
	Introducing O	Comparison to 5	Comparing mass (2)						
	Comparison to 5	Composition to 5	Compare capacity						
1	Subitise/composition to 5	Subitise to 5. Composition	Odd one out. Comparing						
	One less - 5 Currant Buns	of nos to 5 (2 groups)	mass – heavier and light						
th									
2	Subitise/composition to 5	Subitise to 5/composition	Odd one out						
	How many? Representing 0	How many altogether?	Full and empty						
3	Subitise/composition to 5	Subitise to 5. Composition	Find the number						
	Composition of numbers to 5	of nos to 5 (3 groups)	Measuring capacity						
4	Subitise/composition to 5	Subitise to 5/Composition	Find the number. Capacity						
	Comparing numbers to 5	How many are hiding?	- How many fit inside?						
5	Subitise/composition to 5	Subitise/Composition	Find the number						
	Equal and unequal groups	How many are hiding?	Measuring ingredients						

None the Number - Oliver Jeffers

Zero is the Leaves on the Tree - Betsy Franco

A Squash and a Squeeze - Julia Donaldson

Room on the Broom - Julia Donaldson

I Spy Numbers - Jean Marzello

Who Sank the Boat - Pamela Allen

Alice the camel 10 in the bed 1 elephant came out to play 5 little monkeys There's a hole in my bucket!

Clip - Mary Poppins emptying her carpet bag 5 friends counting - Oxford Owl



Balancing Act - Ellen Stoll Walsh

A Beach for Albert - Eleanor May

Anno's Counting book - Mitsumasa Anno

The Ugly Five - Julia Donaldson

The Blue Balloon - Mick Inkpen



Phase 5 - Growing 6,7,8

Numberblocks links: (52 -six, -seven, -eight, -just add 1, -counting sheep, -double trouble, -fluffies)(53 - Octoblock to the rescue)

NB songs - Scoop a scoop, Who has more?

		3 Occop a scoop, who has more:	
	<u>Week 1</u>	Week 2	Week 3
	6,7,8	Making pairs	Length and Height
		Combining 2 groups	Time
1	Dice subitise. Which	10 Frame - subitise	Pic Cards - same/diff
	shows 6? Composition of 6	Matching 6,7,8	Comparing Height -Taller/ Shorter
2	Sorting 6,7,8	10 frame - subitise	Pic cards - same/diff
	Composition of 7	Making Pairs	Comparing length - Longer
	·		and Shorter
3	Dice odd one out	10 frame subitise	Pic cards - same/diff
	Composition of 8	Combining 2 groups	Days of the week
4	Dominoe subitise	10 frame subitise	Pic cards - same/diff
	Matching 6,7,8	Combining 2 groups	Measuring Height
5	1 More and less	10 frame subitise	Pic cards - same/diff
	Kipper's Toybox	Adding more	Measuring Time

Six Dinner Sid - Inga Moore

Kipper's Toybox - Mick Inkpen

Sidney the Silly Only Eats Six - M W Penn

Anno's Counting Book - Mitsumasa Anno

What the Ladybird Heard - Julia Donaldson

Simon's Sock - Sue Hendra

Pairs! In the Garden – Smriti Prasadam-Halls



Quack and count -Keith Baker
The elephant and the bad baby
Don't forget the bacon - Pat Hutchins
The bad tempered ladybird - Eric Carle
5 minutes peace - Jill Murphy
10 fat sausages 1 2 buckle my shoe Noah's
ark Dice/board games Days of the week

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

Mr Wolf's Week - Colin Hawkins

Jasper's Beanstalk - Nick Butterworth

Phase 6 - Building 9 and 10

Numberblock links: (52- nine, -ten, -blast off,-three threes, -ten green bottles) (53- blockzilla, - Now we are 6-10, - numberblobs building blocks, - hiccups -what's the difference, - flatland, - pattern palace

NB songs - Days of Spring, How many passengers?, zoom zoom zoom				
	Week 1	<u>Week 2</u>	<u>Week 3</u>	
	9 and 10	Comparing numbers to 10	3D shapes	
		Bonds to 10	Pattern	
1	Show 9 and 10 on fingers	No line to 10 – spot mistake	How many more to make 10	
	Representing/sorting 9,10	Counting back from 10 – 10	- fingers	
		in a bed	Building with 3D shapes	
2	10 frame subitise to 10	No line to 10 – spot mistake	10 frame – Bonds to 10	
	Representing/sorting 9,10	Comparing numbers within	Matching 3D shapes	
		10		
3	10 frame subitise to 10	No line to 10 – spot mistake	Numicon - Bonds to 10	
	Ordering numerals to 10	Comparing numbers within	Printing with 3D shapes	
		10		
4	10 frame subitise to 10	No line to 10 – spot mistake	10 frame - Bonds to 10	
	10 Black dots - Composition	Making 10	Pattern - Pattern Fish	
	of 9 and 10			
5	10 frame subitise to 10	No line to 10 – spot mistake	Numicon - Bonds to 10	
	Numbers to 10 Bingo	Making 10	Pattern - Movement	

How do Dinosaurs Count to 10? - Yolen & Teague

One Gorilla – Atsuko Morozumi

Mouse Count - Ellen Stoll Walsh

Nine Naughty Kittens – Linda Jenny

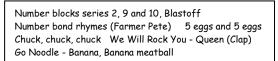


The Napping House - Audrey Wood & Don Wood

Engines Engines - L Bruce & S Waterhouse

Mouse Shapes – Ellen Stoll Walsh

Changes Changes - Pat Hutchins





Mr Willy-Nilly and Zoey's dream - Seung-yim Bak Rapunzel

Princess and the pea

Nui	nberblocks links - (S2 Numberblock castle The legend of Big tum, (S5 -	Spring Consolidation) (53 - ten again, peekaboo, - Octoblock t - Now you see us-drawing numbers, What' w many passengers, Let's all draw numbers	's my number?
	Week 1	<u>Week 2</u>	<u>Week 3</u>
	Composition Subitising Comparison Counting on and Back		
	Matching Numeral Recognition Ordering		
1	Domino odd one out.	Combining 2 dice	Count on/back from diff
	Hopscotch No recognition	Who has more - compare	nos
			Trellis track game
2	Domino odd one out.	Combining 2 groups	Count on/back from diff
	Snap with no and pic cards	Combining 2 groups	nos
			Composition of 10
3	Domino odd one out.	Combining 2 groups	I count you count-1 no
	10 frame fill game	Treasure hunt to 10	Composition of 9
4	Domino odd one out.	Combining 2 groups	I count you count-2 nos
	Bean bag throw.	Composition of 8	What do you notice?
	Composition of 6		·
5	Domino odd one out.	Combining 2 groups	I count you count-3 nos
	Composition of 6	Composition of 7	Estimation

Summer Term

	Phase 7 - To 20 and Beyond				
	Numberblocks links - (53 -Numberblock rally, -eleven, -twelve, -the way of the rectangle, -ride the rays, -block star, -thirteen, -fourteen, -fifteen, -tween scenes, -step squads (54-fifteen minutes of fame, -On your head)(55-ten vaulting)				
	<u>Week 1</u>	Week 2	<u>Week 3</u>		
	Building Numbers beyond 10	Counting patterns beyond 10	Spatial Reasoning		
1	No bonds to 5 - frogs	I count you count 11-20 2 nos	I count you count 11-30 1 no		
	Number Patterns to 20	Missing Numbers	Find my match with shapes		
2	No bonds to 5 - chicks	I count you count 11-20 2 nos	I count you count 11-30 2		
	Matching picture to numeral	Ordering numbers to 20	nos		
			Find my match with models		
3	No bonds to 5 - cherries	11-20 Spot the mistake	I count you count 11-30 3		
	10 Frame fill beyond 10	Race to 20 game	nos		
			Match and fill		
4	X-ray vision no line to 10	11-20 Spot the mistake	I count you count 21-40 1 no		
	Estimating Game	Bingo with numbers to 20	Replicate my model		



5 X-ray vision no line to 10 10 frame subtraction game 11-20 Spot the mistake Which holds most?

I count you count 21-40 2 nos **Tangrams**

Jack The Builder - Stuart J Murphy

One Moose, 20 Mice - Stella Blackstone

One to 10 and Back Again - Nick Sharratt

A Dozen Ducklings Lost and Found - Harriet Ziefert

Which is Round? Which is Bigger? - Mineko Marmada

1 is a Snail, 10 is a Crab - April Sayre & Jeff Sayre

Reading to children is an essential part of their development. Any of these books would be useful during Phase 7



1 is One - Tasha Tudor

The Real Princess - Brenda Williams

10 on a Train - John O'Leary

20 Big Trucks in the Middle of the Street - Mark Lee

Snail Trail: A Journey Through Modern Art - Jo Saxton

Which One Doesn't Belong - Christopher Danielson

Phase 8 - First, Then, Now

Numberblocks links -(S4 -ten's place, -balancing bridge, -sixteen, -square club, -seventeen, -eighteen,-loop the loop,

	-nineteen, -twenty, -tall stories, -flights of fancy, -I can count to twenty)			
	<u>Week 1</u>	Week 2	Week 3	
	Adding More	Taking Away	Spatial Reasoning	
1	Putting 3 numbers in order	Put 3 pic cards in order	Numbers bonds to 5	
	Track game – Counting on	Taking away with pebbles	Making new shapes with 2	
			right angle triangles	
2	Putting 3 numbers in order	Put 3 pic cards in order	Numbers bonds to 5	
	Adding more (1)	Taking Away - Kipper's Toybox	Making new shapes with	
			Squares	
3	Putting 3 numbers in order	Put 3 pic cards in order	Number Bonds to 5	
	Adding more (2)	Taking Away - Green Bottles	Grandpa's Quilt	
4	Putting 3 numbers in order	Put 3 pic cards in order	Composition 4,6	
	Adding more - Unknown then	Taking Away – Unknown then	Making new shapes with	
			Tangrams	
5	Putting 3 numbers in order	Put 3 pic cards in order	Match outline/shape	
	Adding more - First Unknown	Pass it on game	Pattern Blocks	

Mouse Count - Ellen Stoll Walsh

Mr Gumpy's Outing - John Burningham

Rosie's Zoo - Ailie Busby

One Ted Falls Out of Bed - Julia Donaldson

Quack and Count - Keith Baker

My Granny Went to Market - Stella Blackstone

Tad - Benji Davis

Reading to children is an essential part of their



development. Any of these books would be useful The Shopping Basket – John Burningham

Monster Math - Anne Miranda

Elevator Magic - Stuart J Murphy

Grandpa's Quilt - Betsy Franco

Jack and the Flumflum Tree - Julia Donaldson

Pezzettino - Neo Lionni

Phase 9 - Find my Pattern

Numberblocks links -(S2 -odds and evens, -the two tree) (S3 - mirror mirror, -the wrong number, (S4 -heist, -sign of the times, -fun

	Week 1	Week 2	Week 3
	Doubling	Sharing and Grouping	Even and Odd
			Spatial Reasoning
1	Match no to pic bingo	Dots-What can you see?	Dots-What can you see?

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Sandal Magna Comm	unity Academy

	Doubling	Sharing	Even and Odd (1)
2	Match no to added dice pic	Dots-What can you see?	Dots - What can you see?
	Doubling (2)	Teddy Bear picnic	One Odd day
3	Match no to domino pic	Dots-What can you see?	Dots-What can you see?
	Doubling dice game	The Doorbell rang	Even and Odd (2)
4	Spot change on 11-20 no	Counter arrangements	Beanbag subtract from 10
	line	<i>G</i> rouping	How many cubes?
	Doubling barrier game		·
5	Spot change on 11-20 no	Counter arrangements	Beanbag subtract from 7
	line	Grouping (2)	Barrier Game
	Domino game		

This is the Story of Alison Hubble - Allan Ahlberg Two of Everything – Lilly Hong Double Dave - Sue Hendra Double the Ducks - Stuart J Murphy The Doorbell Rang - Pat Hutchins The Gingerbread Man - Traditional Bean Thirteen - Matthew McElligott One Hungry Cat – Joanne Rocklin

Reading to children is an essential part of their development. Any of these books would be useful during Phase 9

Ness the Nurse - Nick Sharratt One Odd Day - Doris Fisher Pete the Cat and the Missing Cupcakes – K & J Dean Underwater Counting – Jerry Pallotta What the Ladybird Heard - Julia Donaldson Rosie's Walk - Pat Hutchins Mr Gumpy's Motor Car - John Burningham

the Move

One Hungry C	Jat – Joanne Rocklin	THE PROPERTY.	17
		ne and on, -we're going on a square hunt, - songs – Counting cars – counting in 1's, 2's	
	Week 1	Week 2	Week 3
	Deepening understanding problem solving	Patterns and Relationships	Spatial Reasoning
1	Subtract from 6 Harry and his bucketful of dinosaurs - subtracting	Dice Doubles Cuisinaire rods	How many counters? No bonds to 10 Making maps from stories - Little Red Riding Hood
2	Subtract from 10 Mr Gumpy's outing - problem solving - counting legs	Domino doubles Cuisinaire rods 2	How many counters? No bonds to 10 Making maps - Journey to school
3	Subtract from 7 How many legs – problem solving	Numicon doubles Bean Bag game	How many counters? No bonds to 10 Making maps - obstacle course
4	Subtract from 8 Making Boats - capacity	10 frame arrangements (6) Pattern fish - Patterns	How many counters? No bonds to 10 X Marks the spot
5	Subtract from 9 Making Bridges - length	10 frame arrangements (8) Pattern	How many counters? No bonds to 10 Designing mazes