Beaufort School - Programme of Learning

Number, problem solving and reasoning



Number, problem solving and reasoning:

(Pre-formal: Cognition)

Intent:

- To be able to recognize money and exchange coins to pay for items through practice (Number)
- To add small numbers to others to become familiar with addition work (Number)
- To subtract small quantities from numbers up to 15. (Number)
- To be familiar with quantity variation terms including more, less, one and lots, related to quantities and volume/capacity (Number)
- To develop knowledge of 1:1 correspondence when counting (Number)
- To rote count, reliably count to a small given number and begin to write numerals (Number)
- To recognize numerals up to a small given number (Number)
- To record a number of items using a tally, pictogram, removal/addition of a Velcro picture or sound (E.g. beat of a drum) (Number)
- To develop familiarity with ordinal numbers, when used to record the finishing position in a race or height/length of items (Number)
- To group objects by a simple criterion (E.g. colour/size) and divide a whole into equal quantities/volumes (Number)
- To explore the properties of 2D and 3D shapes and begin to name a growing range (SSM)
- To achieve an understanding of object permanence (SSM)
- To be able to respond to and use directions (SSM)
- To explore volume and capacity using both solids and liquids (Filling, emptying, comparative language and measuring) (SSM)
- To have a varied vocabulary linked to size and comparison (SSM)
- To have knowledge and understanding of mass and weight and be able to compare length and height (SSM)
- To consider and compare position and relationships between objects using appropriate language (SSM)
- To demonstrate basic knowledge of time (SSM)
- To copy, create or continue a pattern (U&A)
- To sort and classify materials (U&A)
- To begin to estimate or predict in relation to quantity and size (U&A)

Implementation:

Content, order and skills to deliver a sequential, cumulative and coherent curriculum

E = Emerging

D = Developing

S= Secure

C = Contextualised/Embedded

Pre-formal (P1-4)	Semi-formal (PS4-6)	Formal (PS7 and above)
Cognition:	Maths:	Maths:
1.Awareness of stimuli -people, objects and	Number:	Number:
activities:	Money	Money
 Recognise an obvious change happening very 	Suggested Activities: Multiple opportunities to practise	Suggested Activities: Multiple opportunities to practise handling
close to self e.g. stills when hand is massaged or	handling money in roleplay shopping environments and in	money in roleplay shopping environments and in public, including
when sees a bright flashing light	public, including recognising numerals on coins, giving the	recognising numerals on coins up to 8, giving the correct quantity of
•Recognise when a stimulus starts and stops e.g.	correct quantity of coins to an adult, reliably counting	coins to an adult, reliably counting with understanding of 1:1
stills, moves limbs, turns after the stimuli start	with understanding of 1:1 correspondence. Stopping when	correspondence. Completing simple number sentences to create
or stop	correct quantity has been given, without 'clue' given in	number bonds to 10 to give the correct quantity. Counting up to 20.
 Accept stimuli for an increasing amount of 	adult's tone of voice. Link to topic	Recognising the value displayed on a ± 5 and then a ± 10 . Adding
time e.g. will hold objects or allow feet to be in	E1 - Responds to give me more	coins to notes to create the correct amount. Link to topic
the foot spa	E2 - Recognises numeral 1	S1 - Knows the last number counted represents the total size of the
 Respond to a widening range of stimuli e.g. 	E3 - Shows an interest in counting and numbers	group
turns to a range of flashing objects	E4 - Represents 1 ? shows one finger, points to one	S2 - (RR Standard 2) Demonstrate an understanding of the concept
 Anticipate stimuli that occur over and over 	object, one nod of head	of numbers up to 5 by putting together the right number of objects
again e.g. smile before being pushed on a swing	E5 - Indicates one on request	when asked
after several pushes	E6 - Indicates 2 on request	53 - Counts out objects to 5 reliably
 Respond to a range of stimuli that are 	D1 - Picks up more than one object when asked for 2	54 - Recognises numerals 1 - 5
quieter/less obvious e.g. smile at quiet singing	D2 - (RR Standard 1) Demonstrate an understanding of	S5 - Recognises numerals 1 - 8
 Attend to stimuli further away e.g. hears music 	the concept of transaction (e.g. by exchanging a coin for	S6 - Counts out objects to 10
a few feet away or smells lunch as the trolley	an item, or one item for another, during role play activity)	C1 - Knows one more of a number up to 5 without practical support
comes in	D3 - (RR Standard 2) Say the number names to 5 in the	C2 - (RR Standard 3) Demonstrate an understanding that the last
	correct order (e.g. in a song or joining in with the	number counted represents the total number of the count
	teacher)	C3 - Counts independently to 15.

 Transfers attention from one stimulus to 	D4 - Identify whether there are 1,2 or 3 objects in a	C4 - (RR Standard 4) Count to 20, demonstrating that the next
another e.g. looks at jumping dog and when it	group of objects	number in the count is one more and the previous number is one less
finishes look at moving car	D5 - Aware of numerals 1-5	C5 - To identify a number that is 1 more and 1 less up to 20
 Attend stimuli in a busy classroom e.g. watch 	D6 - Counts out 3 objects from group and stops	C6 - (RR Standard 4) To solve number problems involving addition of
another child moving around		single digit numbers up to 10
 Locate a specific stimulus against a busy 		
background e.g. find favourite toy in a box of	Addition	Addition
several toys or turn to name in a noisy room	Suggested Activities: Practising taking part in number	Suggested Activities: Practising taking part in number songs and
•Persist in making simple toys do something e.g.	songs and counting activities where one is added.	counting activities where one is added. Differentiation between one
keep swiping wobble toys or pressing a switch to	Differentiation between one and lots/ making one and	and lots/ making one and lots in sorting circles, progressing onto
keep the toy active	lots in sorting circles, progressing onto more and less.	more and less. Recognising numerals up to 3 to take part in simple
. ,	Recognising numerals up to 3 to take part in simple	addition tasks. Link to topic
2. Exploration of objects, materials and	addition tasks. Link to topic	S1 -Recognises more in a range of practical situations
substances:	E1 - Enjoys helping to count objects	52 - Understands add means to put more in
•Use their senses to register interesting events	E2 - Interacts with number songs	S2 - Understands add 1 more in practical situations
around them e.g. listen to drum, watch moving	E3 - Enjoys number songs and rhymes	S3 - Recounts when the amount has been changed
toy, touch gloop	E4 - Supports an adult counting	S4 - (RR Standard 3) Use real life materials to add one to a group of
•Locate moving stimuli e.g. track a florescent	E5 - Counts when playing with numbers in any order	objects and say how many are now present
ball or moves head to sniff perfume as it passes	E6 - Makes a group of one	S5 - Recognises numerals 1 - 12
from one side to another	D1 - Makes a group of lots	S6 - Sequences numerals to 10 consistently
•Turns to objects and sounds that are activated	D2 - (RR Standard 1) Distinguish between 'one' and	C1 - Recognises which group has more
but in one place e.g. turns head to locate	'lots', when shown an example of a single object and a	C2 - Recognises which group has less
flashing light	group of objects	C3 -(RR Standard 4) Demonstrate an understanding of the symbols
•Makes things happen when they move randomly	D3 -Demonstrate an understanding of the concept of	for add and equal to
e.g. the space blanket crackles when the child	more	C4 - (RR Standard 4) Demonstrate an understanding of the
wriggles or arm movement activates a hanging	D4 - Counts to 3 correctly	commutative law e.g. 3+2=5, therefore 2+3=5
bell	D5 - Requests for more to complete 1:1 matching	C5 - (RR Standard 4) To read and write numbers in numerals from 0
•Active toys that provide an interesting effect	D6 - Recognises numerals 1 - 3 consistently	to 9
randomly and without connecting the cause to		C6 - (RR Standard 4) Demonstrate an understanding of the
the effect e.g. pats a BigMac switch and		composition of numbers to 5 and a developing ability to recall number
something motivating happens or kicks the		bonds to and within 5
keyboard and sounds happen		
Reyboard and sounds happen	Subtraction	Subtraction
3 Control of objects and materials		
-		
		in active counting backwar as from to to assess now many remain
 3.Control of objects and materials Make things move deliberately with gross movement e.g. knock mobile, kick bells, swish water Make things move deliberately with finer movements e.g. whole hand or head to activate switch or swipe objects that give a strong reward 	Subtraction Suggested Activities: Practising taking part in number songs and counting activities where one is subtracted. Use of objects/Velcro communication strip to practise taking one away and posting into a box. Work with quantities up to 3, including counting items remaining, taking one away and counting again to assess how many are left E1-Says gone or all gone appropriately	Subtraction Suggested Activities: Practising taking part in number songs and counting activities where one is subtracted. Use of objects/Velcro communication strip to practise taking one away and posting into a box. Work with quantities up to 10, including counting items remaining, taking one away and counting again to assess how many are left. Begin to complete number sentences using – and = signs. Practise counting backwards from 10 to assess how many remain

•Persist in making simple toys do something e.g.	E2 - Will give only one from a group when asked for one	S1 -Recognises less where the difference is great in practical
keep swiping wobble toys or pressing a switch to	E3 - Interacts with number songs	situations
keep the toy active	E4 - Enjoys number songs and rhymes	52 - Counts objects when asked how many reliably
•Operate a toy that requires a single action e.g.		53 - Says how many in a group up to 5.
button on Jack-in-the-box, switch the bubble	E5 - Takes objects out of a container	54 - Begin to count when asked how many
tube	E6 - Takes object out of container when requested	S5 - (RR Standard 3) Use real life materials to subtract 1 from a
 Activate toys deliberately, using different 	D1 - Joins in with familiar number rhymes with some	group of objects and say how many are now present
movement for different toys e.g. shaking bells	accuracy	S6 - Joins in counting backwards from 10
and banging drum	D2 - Represents amounts 1 and 2	C1 - (RR Standard 3) Identify how many objects there are in a group
 Shift attention between different 	D3 - Joins in with number rhymes when encouraged	of up to 10 objects, recognising smaller group on sight and counting
objects/actions e.g. actions on an activity	D4 - Responds to how many?	the objects in larger groups up to 10.
centre	D5 - Counts to 3 correctly	C2 - Match the numerals 0-9 to groups of objects
 Manipulate objects purposely e.g. empty and 	D6 - Identify whether there are 1,2 or 3 objects in a	C3 -(RR Standard 4) Count to 20, demonstrating that the next
fill containers, stacking blocks	group of objects	number in the count is one more and the previous number is one less
•Press buttons to make toy work e.g. keyboard,		C4 - (RR Standard 4) Demonstrate an understanding of the symbols
musical toys		for subtract and equal to
•Look for favourite objects in a box of similar		C5 - To identify a number that is 1 more and 1 less up to 20
items not deliberately hidden		C6 - (RR Standard 4) To solve number problems involving subtraction
•Open containers to find objects e.g. lift lid,		of single digit numbers up to 10
press buttons, pull top off		
•Use objects and materials according to their	Quantity/volume variation (one and lots, more and	Quantity/volume variation (more and less, full and empty, larger
function e.g. brush for hair, shoes on feet, and	less). Suggested activities: Pratise filling and empyting	and smaller, same)
paint on paper.	containers, indicating which contains more and which	Suggested activities: Practise filling and emptying containers,
	contains less. Compare differently sized/shaped	demonstrating ability to indicate more and less. Practise adding one.
4. Sequence and pattern:	containers to see which holds the most liquid/rice/sand.	Make use of 'full' and 'empty' language. Practise identifying larger
•Take turns in repetitive games where the adult	Ask for more using a sign, symbol or verbal word. Begin	and smaller groups. Compare differently sized/shaped containers to
stops to wait for a response e.g. Intensive	to comment upon one and lots. Use more and less in	see which holds the most liquid/rice/sand. Identify more, less,
interaction, action songs	relation to weight as well as quantity (Which is more	bigger and smaller in relation to numbers. Practise understanding
 Anticipate routine events ie see a pattern in 	heavy? Could include use of weighing scales). Link to	that the total remains the same with no subtraction/addition.
the event e.g. action songs, eating, being	topic	Identify items which can be weighed using scales. Link to topic
hoisted		S1 - Understands zero means none
•Recognise familiar places e.g. look up at the	E1 -Fills containers	S2 - Recognises more in a range of practical situations
lights in the sensory room, go straight to a	E2 - Empties containers	S3 - Recognises less where the difference is great in practical
favourite object in the hall	E3 - Responds to give me more	situations (E.g. less quantity, or less heavy)
 Explore objects that are used in familiar 	E4 – Says gone or all gone appropriately	S4 - Understands add 1 more in practical situations
routines e.g. spoon, cup, hair brush, drum	E5 - Makes a group of one	S5 - States if a container is full or empty
	5 1	
 Take turns actively, e.g. rolling ball to partner, 	E6 - Makes a group of lots	S6 - (RR Standard 3) Identify how many objects there are in a
•Take turns actively, e.g. rolling ball to partner, passing objects backwards and forwards		S6 - (RR Standard 3) Identify how many objects there are in a group of up to 10 objects, recognising smaller group on sight and
	E6 - Makes a group of lots	group of up to 10 objects, recognising smaller group on sight and counting the objects in larger groups up to 10.
passing objects backwards and forwards	E6 - Makes a group of lots D1 - (RR Standard 1) Distinguish between 'one' and 'lots',	group of up to 10 objects, recognising smaller group on sight and

 Select appropriate resources for a familiar routine Operate toys that require more than one action to complete e.g. bubble tube controlled by latched switch, CD player knobs Operate toys that need to be pulled apart and put together e.g. stickle bricks, Duplo Follow objects that move within the toy e.g. cars down a slope, balls in a tube Put objects into a container one at a time e.g. balls down a tube Select preferred objects from a mixture of objects e.g. in a box Look at the bottom of a sliding/tumbling toy for the object to appear when it can't be seen travelling down Use objects that require two or more actions to complete e.g. posting shapes Use early problem solving for a familiar event e.g. selecting a car or ball to roll down the slope rather than a piece of material or paper Solve simple problems where understanding the pattern is important e.g. when there are 4 pegs to a toy and 3 are in place, look for the fourth if out of sight. 	 D3 -Demonstrate an understanding of the concept of more D4 - Requests for more to complete 1:1 matching D5 - Aware when there is too many for 1:1 matching and ceases task D6 - Experiment with heavy and light where the difference is marked (Relating to more and less) Counting & 1:1 correspondence Suggested Activities: Practise giving out items so that each person/teddy bear has one item. Start with just enough items for a small, group, and extend by providing more items than are required. Move from 1:1 corresponds onto matching quantities up to three to the correct numerals and naming them correctly. Link to topic. Make use of objects such as counting bears/plastic fruits/others. E1 -Enjoys helping to count objects E2 - Assists with one to one matching i.e. cups on saucers E3 - Recognises numeral 1 E4 - Represents 1, shows one finger, points to one object, one nod of head E5 - Indicates one on request E6 - Makes a group of one D1 - (RR Standard 1) Demonstrate an understanding of the concept of 1:1 correspondence D2 - Helps with 1:1 matching e.g. give each bear a hat D3 - Aware when there is too many for 1:1 matching and ceases task D4 - Consistently completes 1:1 matching i.e. each teddy gets a hat D5 - Identify whether there are 1,2 or 3 objects in a 	 C3 - To identify a number that is 1 more and 1 less up to 20 C4 - (RR Standard 4) Demonstrate an understanding that the number of objects remains the same when they are rearranged, providing nothing has been added or taken away and an understanding the total number of objects changes when objects are added or taken away C5 - To identify the biggest or smallest number from two numbers to 20 C6 - To identify objects we can measure using scales Counting & 1:1 correspondence Suggested Activities: Practise giving out items so that each person/teddy bear has up to 5 items each. Practise counting on from a given number with and without the use of a number line. Estimate how many are in a small group and then check. Practise creating number bonds up to 5. Practise counting up to 20 independently, and rote counting up to 30. Link to topic. Make use of objects such as counting bears/plastic fruits/others. Counting Skittles knocked over in a game. Rote counting along to a song (e.g. Have fun teaching songs on YouTube) S1 - Joins in rote counting to 10 S2 - (RR Standard 2) Demonstrate an understanding of the concept of numbers up to 5 by putting together the right number of objects when asked S3 - Counts out objects to 5 reliably S4 - Matches quantities to 5 to numerals S5 - Joins in rote counting to 20 S6 - Finds requested number on a number line C1 - Count on from any given number up to 10 C2 - Estimate how many in a small group (up to 7) and check estimations by counting C3 - (RR Standard 4) Demonstrate an understanding of the
	the concept of 1:1 correspondence D2 - Helps with 1:1 matching e.g. give each bear a hat D3 - Aware when there is too many for 1:1 matching and ceases task	S6 - Finds requested number on a number line C1 - Count on from any given number up to 10 C2 - Estimate how many in a small group (up to 7) and check estimations by counting
	gets a hat	to 9
	Numeral recognition & quantity matching	Numeral recognition & quantity matching

Suggested Activities: Creation of sensory numbers, tracing numbers on screen, on paper or using a magnetic board (E.g. lakeshore ball bearing numbers for tracing). Creation of the numeral using pegs in a peg board, or adding correct number of dots to a ladybird. Tracing numerals in sand/messy substances. Finding numerals hidden around the classroom/school and naming them. Matching magnetic numbers to correct number of counters. Completing numeral inset puzzles, naming numerals. Bingo based around early numbers. Hopscotch. Recording the score in a game of bowling. E1 - Recognises numeral 1 E2 - Interacts with number songs E3 - Enjoys helping to count objects E4 - Assists with one to one matching i.e. cups on saucers E5 - Recognises 1 and 2 E6 - Represents amounts 1 and 2 D1 - Picks up more than one object when asked for 2 D2 - Joins in with familiar number rhymes with some accuracy D3 - Aware of numerals 1-5 D4 - Sequences numerals 1 -3 D5 - Understands 0 = none	Suggested Activities: Creation of sensory numbers, tracing numbers on screen, on paper or using a magnetic board (E.g. lakeshore ball bearing numbers for tracing). Creation of the numeral using pegs in a peg board, or adding correct number of dots to a ladybird. Tracing numerals in sand/messy substances. Finding numerals hidden around the classroom/school and naming them. Matching magnetic numbers to correct number of counters. Completing numeral inset puzzles, naming numerals. Bingo based around early numbers. Hopscotch. Recording the score in a game of bowling. S1 - Recognises numerals 1 - 5 S2 - Matches quantities to 5 to numerals S3 - Understands zero means none S4 - Says how many in a group up to 5. S5 - Recognises numerals 1 - 8 S6 - Recognises numerals 1 - 12 C1 - Sequences numerals 1 - 12 C1 - Sequences numerals to 10 consistently C2 - Finds requested number on a number line C3 - (RR Standard 4) To read and write numbers in numerals from 0 to 9 C4 - To recognise numerals 12-30 C5 - To write (hand or computer) numbers 11-20 C6 - Reliably matches numerals to 10 to the correct quantity.
D6 - Recognises numerals 1 - 3 consistently	co - kendby marches numerals to to to the correct quantity.
Indicating/Recording Quantities	Indicating/Recording Quantities (Including Ordinal numbers)
Suggested Activities: Taking away a frog/monkey/flying saucer from a communication board during a number song, representing a small number using beats or shakes of a musical instrument. Throwing items at a target to record a number (1:1 correspondence practice). Recording the result of a game such as skittles or hop scotch using magnetic tokens, a tally or a numeral. Making a numeral out of straws to represent a quantity. Indicating a numeral on an aided language display. Recording positions in a car race/running race or assault course using ordinal numbers. Beginning to overwrite and then copy numerals E1 - Represents 1, shows one finger, points to one object, one nod of head E2 - Says numbers in any order E3 - Supports an adult counting	Suggested Activities: Taking away a frog/monkey/flying saucer from a communication board during a number song, representing a small number using beats or shakes of a musical instrument. Throwing items at a target to record a number (1:1 correspondence practice). Recording the result of a game such as skittles or hop scotch using magnetic tokens, a tally or a numeral. Completing a 'survey' in school/class linked to eye/hair colour, pets or favourite foods and recording results using a tally chart, bar chart or pictogram. Making a numeral out of straws to represent a quantity. Indicating a numeral on an aided language display. Recording positions in a car race/running race or assault course using ordinal numbers. Writing numerals up to 9 and then up to 20. S1 - (RR Standard 2) Demonstrate an understanding of the concept of numbers up to 5 by putting together the right number of objects when asked

E4 - Shows an interest in counting and numbers	52 - Counts objects when asked how many reliably
E5 - Indicates one on request	S3 - Says how many in a group up to 5.
E6 - Indicates 2 on request	S4 - Recognises numerals 1 - 5
D1 - Represents amounts 1 and 2	S5 - Match the numerals 0-9 to groups of objects
D2 - Joins in with familiar number rhymes with some	S6 - Counts out objects to 10
accuracy	C1 - Sequences numerals to 10 consistently
D3 - (RR Standard 2) Say the number names to 5 in the	C2 - Uses ordinal numbers 1st, 2nd, 3rd
correct order (e.g. in a song or joining in with the	C3 - Put up to 20 items into groups of 2 or 5
teacher)	C4 - To sequence numbers to 20
D4 - Matches numerals 1 - 3 to a quantity	C5 - (RR Standard 4) To read and write numbers in numerals from 0
D5 - Responds to how many?	to 9
D6 - Joins in with number rhymes when encouraged	C6 - To write (hand or computer) numbers 11-20
bo - Joins in whith humber thymes when encouraged	
Grouping of objects (Type of object and size)	Grouping of objects (Type of object/shape and size)
Suggested Activities: Practice making sets of objects	Suggested Activities: Practice making sets of objects linked to size.
linked to size. Group into sorting circles. Label as big or	Group into sorting circles. Label as big or small, and then branch out
small, and then branch out using varied language for size	using varied language for size comparison (e.g large and tiny). Count
comparison. Match items of the same or very similar size	quantity of items in each group. Name the shape of the items, and
together. Move around the classroom to find shapes or	acknowledge that they are all triangles despite being different sizes.
different sizes, or symbols to practise language linked to	Begin to recognise smaller group quantities by sight/estimate the
big and small. Groups different types of objects (e.g.	amount up to a total of 7 in a group. Organise a large group into
bananas, apples and grapes, in three separate bowls)	smaller sets, practising simple division. Compare groups using
E1 - Group similar objects together e.g. put all cars in the	biggest, smallest, more and less. Begin to make equal groups.
garage and all animals on the farm	S1 - Beginning to count groups over 5
E2 - Assists with one to one matching i.e. cups on saucers	S2 - Recognises shapes regardless of size
E3 - Matches objects regardless of size	53 - Sorts by size with less difference between sizes
E4 - Match objects in relation to size i.e. place the big	54 - Give size name when asked how big
balls into the net and all the small balls into the bucket,	S5 - (RR Standard 3) Identify how many objects there are in a group
with a correctly sized object already present	of up to 10 objects, recognising smaller group on sight and counting
E5 - Makes a group of lots	the objects in larger groups up to 10.
E6 - (RR Standard 1) Distinguish between 'one' and	S6 - Identify the larger and smaller group of 2 sets of objects
'lots', when shown an example of a single object and a	C1 - (RR Standard 3) Use real life materials to add one or subtract
group of objects	one to/from a group of objects and say how many are now present
D1 - Identify big and small when there is a marked	C2 - States biggest and selects smallest out of a selection of object
difference	C3 - Recognises which group has less and which has more
D2 - Makes sets with the same amount in each container	C4 - Estimate how many in a small group (up to 7) and check
D3 - Counts out 3 objects from group and stops	estimations by counting
D4 - (RR Standard 2) Identify the big or small object	C5 - Matches the numerals 0-9 to groups of objects
from a selection of two	C6 - Put up to 20 items into groups of 2 or 5
D5 - Sort by given criteria - type of objects	

D6 - Sorts by size where the contrast is obvious	
Shape space and measure:	<u>Shape space and measure:</u>
 2D shape Suggested Activities: Going on a shape hunt around school, searching for shapes in messy substances and naming them, making 2D shape pictures using plastic/magnetic shapes. Using a symbol to name a shape. Learning 2D shape names through use of Switch-it Jigsaw/YouTube song. Handling shapes, including taking them out of containers, butting them back in and experimenting with how many will fit in different containers or how they go together. Walking/running/skipping/jumping in the shape of shapes drawn. Making a picture out of shapes on a computer/ipad screen. Shape bingo - Relating to shape name, colour, etc. E1 - Handles shapes E2 - Looks for object (Shape) once it has been hidden E3 - Will identify where they want an object (Shape) placed E4 - Enjoys playing with construction materials (2d Shapes) E5 - Aware of familiar objects normal place E6 - Places object (Shape) in a container when requested D1 - Identifies if something is in or out of a container D2 - Uses shapes to make pictures D3 - Experiments with putting shapes into shape sorter D4 - Matches 2D shapes circle, square, triangle, including from a choice of 3 or 4 D5 - Uses basic shape names not always correctly D6 - Matches practical shape to photograph 	 2D shape Suggested Activities: Going on a shape hunt around school, searching for shapes in messy substances and naming them, making 2D shape pictures using plastic/magnetic shapes. Using a symbol to name a shape. Learning 2D shape names through use of Switch-it Jigsaw/YouTube song. Handling shapes, including taking them out of containers, butting them back in and experimenting with how many will fit in different containers or how they go together. Making shapes out of straws/pipe cleaners, with varying sizes etc. Differentiating 2D shapes from 3D shapes. Drawing large shapes using chalk. Walking/running/skipping/jumping in the shape of shapes drawn. Making a picture out of shapes on a computer/ipad screen. Classifying shapes in terms of numbers of sides and corners. Shape bingo - Relating to shape name, colour, curved or straight sides, number of corners, etc. S1 - Selects a specific shape by name circle, triangle , square S2 - Recognises shapes regardless of size S3 - Recognise shapes regardless of type (equilateral, isosceles, scalene, right angled)- not by name C1 - Explore pentagons and hexagons C2 - Recognise shapes within the environment. Copy a shape picture C3 - Copy and complete a pattern using shapes C4 - (RR Standard 4) Recognise some common 2D shapes C6 - To sort 2D from 3D shapes
Object permanence and Direction Suggested Activities: Object Permanence - Looking for an object which has been hidden in a predictable place. Searching in a small range of places where the object might have been placed (e.g. under one of 3 cups.	Directions/Speed Suggested Activities: Working with Beebots, become familiar with language associated with directions, in addition to icons/arrows which influence movement in a specific direction. Practice using the controls, and programming the device to move a defined number of

Emptying and filling containers. Looking for objects in their normal places. Directional work - Begin to make an object move (or move body to music) in the directions/speeds identified below. E1 - Looks for object once it has been hidden (Witnessed and unwitnessed) E2 - Tracks a falling object E3 - Will identify where they want an object placed E4 - Empties containers E5 - Aware of familiar objects normal place E6 - Places objects in a container D1 - Takes objects out of a container D2 - Places object in or out of a container when requested D3 - Looks for own items if not in normal place D4 - Responds to directional terms up and down D5 - Responds to directional terms up and down D6 - Copy a simple movement pattern	 steps in set directions (Link to following instructions). Begin to problem solve moving through a sequence of steps to reach a target. Begin to identify left and right (i.e. turn left). Make use of practising ball skills outside/in circle time to practise altering the speed at which an object is moving. Practise moving fast and slow to dance to music. Develop knowledge of moving in different directions at start of lesson by moving in a defined direction to music during the starter activity. S1 - Moves forwards or backwards S2 - Can demonstrate moving fast or slow S3 - Moves from side to side. S4 - States if object is moving forward, backward, fast or slow S5 - Causes an object to move at a speed - Fast or slow C1 - Causes an object to move a defined number of steps in a direction (E.g. 3 steps/squares forward, 2 steps/squares backwards) C2 - To respond to directional icons (arrows) which point in differing directions C3 - To problem solve causing an object/device to move through a sequence of steps in the correct direction to meet a target. C4 - To move in different directions C5 - To identify left C6 - To identify right
 Volume & Capacity Suggested Activities: Exploring the capacity of a range of differently sized and shaped containers using a range of materials (including sand, water, jelly baff, plastic cubes, rice and other objects). Practising empyting and filling activities and using vocabulary including in, out, full, empty, not full, almost full/empty. Experiments with placing really large and small items in really large/small bags/boxes to develop a better understanding of capacity. E1 - Fills containers E2 - Empties containers E3 - Will give only one from a group when asked for one (e.g. one item from a container) E4 - Aware if container is empty 	Volume & Capacity Suggested Activities: expand on range of vocabulary used to also encompass: not full, almost full/empty. Make use of an expanding range of positional language to describe where objects/items are in relation to their containers. Ask pupils to place the items in the correct places. Describe and order containers in terms of their size, having attempted to pour items between containers. Start to use comparative terms such as almost, nearly, very, not and enough. Starting to read measurements of volume using numbers up to 10 on a measuring jug (pouring to the correct amount) and then to begin to use standard measurement units (e.g. pouring to one litre) S1 - States if a container is full or empty S2 - Understands terms in, on, under, next to S3 - Sorts by size (Containers) S4 - Gives size a name when asked how big
E5 - Places objects in and takes objects out of containers	55 - Orders 4 objects by size (Containers)

 E6 - Places object in and takes objects out of a container when requested D1 - Recognise big containers can fit in lots or big items D2 - Recognise small containers fit small items but not big items D3 - Recognises signs/symbols/words in, on and under D4 - Demonstrates an understanding of in, on and under D5 - Demonstrates understanding of full D6 - Demonstrates understanding of empty 	 S6 - States biggest and smallest out of a selection of containers C1 - Handle 3D shapes including containers and objects to place inside C2 - Use ordinal language to describe position (E.g. 2nd biggest, 3rd biggest) C3 - To identify objects/materials we can measure using a measuring jug C4 - Begin to use basic numerals on the side of a measuring jug to measure a volume of liquid (e.g. numerals 1-5) C5 - To use increased comparative language to compare volume held, including almost or nearly full or empty, and not full and not empty. C6 - To begin to measure using standard units for capacity and volume such as ml, cl or l.
 3D shape Suggested Activities: Building models from 3D shapes, 'naming' shapes (using own name), counting their numbers of faces, corners and edges. Experimenting with 3D net shapes. Searching for shapes hidden in messy substances or in bags/boxes which require simple problem solving skills to open. Experimenting with shapes which will roll or not role. Sorting shapes in terms of size. Finding everyday items which are a range of 3D shapes - Exploring their properties. E1 - Handles shapes E2 - Matches objects regardless of size. E3 - Enjoys playing with construction materials (3D Shapes), knocks down bricks E4 - Rolls cylinders and spheres E5 - Matches 2 colours (of 3D shapes) E6 - Responds to find the same D1 - Where there is a marked difference identify big D2 - Where there is marked difference identify small D3 - Handles a range of 3D shapes D4 - Rolls 3D objects D5 - Understands small as little D6 - Understands large as big 	 3D shape Suggested Activities: Building models from 3D shapes, 'naming' shapes (using own name), counting their numbers of faces, corners and edges. Experimenting with 3D net shapes. Searching for shapes hidden in messy substances or in bags/boxes which require simple problem solving skills to open. Experimenting with shapes which will roll or not role. Sorting shapes in terms of size. Finding everyday items which are a range of 3D shapes - Exploring their properties. Starting to name some 3D shapes using correct name - verbally or using symbols S1 - Recognises shapes regardless of size S2 - Recognises shapes regardless of colour S3 - Matches practical shape to symbol S4 - Give shape name when asked what shape S5 - To identify the odd one out from a choice of 2 and then 4 S6 - Handle 3D shapes C1 - Recognises colours - red, blue, green and yellow of shapes C3 - To explore which 3D shapes roll C4 - To identify difference between 2D and 3D shapes C5 - To sort 2D from 3D shapes C6 - (RR Standard 5) Name some common 3D shapes from a group of shapes or from pictures of the shapes and describe some of their properties

 Size comparison and ordering	Size comparison and ordering
Suggested Activities: Stacking and building using items	Suggested Activities: Starting to order objects by size, starting
of differing sizes, exploring relationship/position (e.g.	with 3 and building up to 6 and beyond. Use of wide ranging,
will a very large cube stack on top of a tiny one?).	comparative language to place items in the correct order. Use of
Grouping items into big and small where there is a clearly	ordinal numbers, e.g. 2 nd and 3 rd biggest or smallest. Placing items
marked difference. Experimenting with placing items of	which ascend in height/size in order and practising placing less
different sizes into differing containers (Bags and	predictable items in order of size. Stacking and building using items
boxes). Practise using varying language for big and small	of differing sizes, exploring relationship/position (e.g. will a very
as identified below. Sorting items by size. Copying a	large cube stack on top of a tiny one? Which ones is the smallest?).
pattern of differently sized items (e.g. small, medium,	Grouping items into biggest and smallest where there is a clearly
large)	marked difference, with a third 'middle sized' category.
E1 - Matches objects regardless of size	Experimenting with placing items of different sizes into differing
E2 - Match objects in relation to size i.e. place the big	containers (Bags and boxes) and using varied language for the size.
balls into the net and all the small balls into the bucket,	Practise using varying language for big and small as identified below.
with a correctly sized object already present	Sorting items by size.
E3 - Enjoys playing with construction materials	S1 - Orders 3 objects by size
E4 - Will identify where they want an object placed	S2 - Give size name when asked how big
E5 - Where there is a marked difference identify big	53 - Recognises shape regardless of size.
E6 - Where there is a marked difference identify small	S3 - Recognises shape regardless of size. S4 - (RR Standard 2) Sort objects according to a stated
	characteristic
D1 - Uses language big and small (not always correctly) D2 - Recognise big containers can fit in lots of big items	
	S5 - Identify the larger and smaller group of 2 sets of objects
and that small containers fit small items but not big items	S6 - Orders 4 objects by size
	C1 - States biggest and smallest out of a selection of object
D3 - (RR Standard 2) Identify the big or small object	C2 - To identify smallest and biggest from a selection of pictures
from a selection of two	C3 - To order 6 objects by size
D4 - Understands small as little and large as big	C4 - To begin to use more varied language, such as massive, tiny,
D5 - Sorts by size	huge, miniscule, giant, petite.
D6 - Copy a simple size pattern	C5 - Orders objects from biggest to smallest and smallest to
	biggest.
	C6 - Finds the item which is 2 nd or 3 rd biggest or smallest,
	demonstrating increased understanding of ordinal numbers.
Mass and weight	Mass and weight
Suggested Activities: Holding and attempting to	Suggested Activities: Sorting items into heavy and light, ordering
move/slide/pull items of differing weights. Dropping	from heaviest to lightest. Testing what can be picked up using a
light and heavy items to see what happens. Recognising	range of tools. Use of balance scales to identify heavy or light items,
items which are too heavy to move. Use of heavy and	balancing the scales and changing the weight on each side. Uses
light symbols. Ordering items in terms of weight and	ordinal language to describe which is the heaviest/lightest item. Use
finding items of similar weights.	of scales to measure in grams or kilograms and use of items such as
E1 - Handles shapes of differing weights	bean bags to say how heavy an item is (By balancing the scales)
LI - Fiundles shapes of all tering weights	bean bags to say now neavy an item is (by balancing the scales)

E2 - Tracks falling objects of different weights to see	S1 - Starting to sort items into heavy and light where there is a
what happens when they fall	marked difference
E3 - Anticipate an action i.e. falling bricks, jack in the	S2 - Starts to order 4 items from heaviest to lightest.
box, item breaking	S3 - Predicts what will be light or heavy
E4 - Experiments with items which can and cannot be	S4 - Knows that some items are too heavy to pick-up, even with help
picked up	S5 - experiences picking up/attempting to pick up a range of heavy
E5 - Plays with water or sand, including objects of	and light items using tools such as tweezers, a fork or on a plate
differing weights in the water and sand.	S6 - To identify objects we can measure using scales
E6 - Separates objects where difference is great i.e. cars and food, in terms of mass	C1 - Recognises which item is heavier when placed on a set of balance scales.
D1 - Matches symbols for heavy and light	C2 - Understands how to make the lightest side of the balance
D2 - Solve simple problems relating to weight e.g. finding	scales heavier
another way to move something heavy, by asking an adult,	C3 - Uses ordinal language to describe 2 nd and 3 rd heaviest or
two person lift or using a wheelbarrow/dragging the item	lightest
on a sheet.	C4 - Attempts to balance scales in terms of weight.
D3 - Orders 3 objects by size in terms of weight	C5 - To measure and record using non-standard units of weight/mass
D4 - Finds 2 the same size in terms of weight	C6 - To measure and record using standard units for length,
D5 - Practically from a choice of 2 identifies light object	weight/mass, capacity/volume
D6 - Practically from a choice of 2 identifies heavy	
object	
Length and height	Length and height
Length and height	Length and height
Suggested Activities: Building towers of differing	Suggested Activities: Building towers of differing heights (including
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 E3 - Responds to give me more (e.g. to build a taller tower) E4 - Repeats an action for effect E5 - Uses language big and small (not always correctly), relating to length and height E6 - Recognises big and small where difference is great D1 - Solve simple problems e.g. connecting shapes together to build a tower D2 - Counts shapes to measure an item. D3 - Responds to how many? D4 - Handles a range of 3D shapes to measure length and height 	 S4 - Starting to use comparative language such as longest and shortest. S5 - Uses ordinal numbers 1st, 2nd, 3rd to describe the longest distance travelled in a car race S6 - Make estimates in length i.e. how many hand spans across the table C1 - To identify objects we can measure using a ruler C2 - To compare length C3 - To measure using non-standard units of length C4 - To measure and record using standard units of length (cms up to 15) C5 -To solve practical problems for length (E.g. making something
D5 - (RR Standard 2) Identify the big or small object from a selection of two D6 - Orders 3 objects by size	longer) C6 - To solve simple word problems for length
Position and relationship Suggested activities: Those which encompass experimentation with a range of items which can be stacked, joined together, nest inside each other and place inside each other. (E.g. sorting items which connect together in different ways). Sorting into differing containers. Matching items which go together. Coverage of positional language such as in, on, inside, next to. Placing shapes inside. Shape sorter or slotting shapes/balls into tubes. Experimenting with which will/will not role down a chute. Building and demolishing structures using magnetic shapes. Completing simple jobs which involve matching items, such as pairing shoes or	Position and relationship Suggested activities: Those which encompass experimentation with a range of items which can be stacked, joined together, nest inside each other and place inside each other. (E.g. sorting items which connect together in different ways) Sorting into differing containers/by colour Matching items which go together. Coverage of positional language such as in, on, inside, next to. Placing shapes inside. Shape sorter or slotting shapes/balls into tubes. Experimenting with which will/will not role down a chute. Building and demolishing structures using magnetic shapes. Completing simple jobs which involve matching items, such as pairing shoes or setting a table.
setting a table. E1 - Bangs two objects together E2 - Rolls a ball E3 - Locate source of sound E4 - Presses switch to activate an object E5 - Matches similar pictures	S1 - Directs to stop when there is enough S2 - Sorts by colour - 2 S3 - Sorts by shape S4 - Recognises obvious error in a group S5 - Match pairs of socks S6 - Rotate pieces to fit into a jigsaw/puzzle
 E6 - Recognise big containers can fit in lots or big items D1 - Recognise small containers fit small items but not big items D2 - Solve simple problems e.g. make sure the box is big enough to fit the item D3 - Experiments with putting shapes into shape sorter 	 C1 - Use mathematical language (positional) in problem solving situation - set tables for a picnic C2 - Plays with picture dominoes C3 - To explore which 3D shapes roll C4 - To identify difference between 2D and 3D shapes C5 - To order 6 objects by size

D4 - Matches related objects i.e. knife and fork, socks and shoes D5 - Sort by given criteria - type of objects D6 - Match pairs of objects and pictures to objects	C6 - To create own patterns with three colours
	 Time Suggested activities: Naming days of the week through word/sign/symbol. Naming months of the year. Using a visual timetable to sequence events typically associated with differing times of day, in home or at school. Beginning to use a clock face to imitate and then remember o clock and half past times. Ability to draw those times onto a clock face. Starting to be able to complete quarter turns - first with own body and then moving onto a clock face. S1 - Begin to use names of days of the week (may not be correct) S2 - To name any 4 days of the week S3 - To name any 6 months of a year S4 - To identify something they do in the morning S5 - To identify something they do at night time C1 - To name all days of the week and sequence events for each day C2 - To name all the months of the year C3 - To tell the time to o'clock and half past the hour C4 - To draw hands on a clock face for o'clock and half past the hour C5 - To make a full turn, half turn, quarter turn and three quarter turn C6 - To move clockwise and anti-clockwise
<u>Using and applying:</u>	<u>Using and applying:</u>
Patterns Suggested activities: Recognising patterns in different ways and beginning to join in with them (e.g. a pattern of sound played on a drum, a pattern of 1 key words which follow each others. Anticipating a known action, e.g. The pattern of a drum roll always leading to an exciting event such as an 'explosion' of colour or sound, falling bricks, a jack in the box or touch screen activity. Matching items which are the same. Beginning to copy movement, colour size or object patterns, where there is one stage (e.g.	Patterns Suggested activities: Copying and repeating a simple pattern of real life objects, sounds or colours. Start with a pattern of 2 and build up to completing patterns of up to 4 items and then beyond. Copying a pattern of 2D or 3D shapes, and then learning to complete the pattern. Devising own patterns with 2-3 colours and using them in work. Copying patterns in different ways, e.g. paint printing, objects, shapes, colours/sizes of shapes. Beginning to work on patterns with more than one criterion - (e.g. big red triangle, small

 matching big to big, one colour to the same colour, one object to the same object or repeating a repetitive movement). Having mastered this, begin to work towards two stage patterns. E1 - Anticipate an action i.e. falling bricks, jack in the box 	blue triangle, big purple triangle, then repeated), where there is a variety of sized and coloured triangles to choose from.
E2 - Presses switch to activate an object	S1 - Matches practical shape to symbol
E3 - Knocks down bricks	S2 - Sorts by type e.g. shoes and socks
E4 - Repeats an action for effect	S3 - (RR Standard 2) Copy and continue simple patterns using real
E5 - Matches 2 colours	life materials e.g. apple, orange, apple, orange
E6 - Responds to find the same	54 - Copy a 2 stage repeated pattern of colour
D1 - Matches colour from 2	S5 - Pupils complete a 2 stage repeating pattern
D2 - Matches symbols	S6 - (RR Standard 3) Copy and continue more advanced patterns
D3 - Copy a simple movement pattern	using real life materials e.g. apple, apple, orange, apple, apple, orange
D4 - Copy a simple colour pattern	C1 - Pupils copy a 3 stage repeated pattern
D5 - Copy a simple size pattern	C2 - Copy a pattern using shapes
D6 - Copy a simple object pattern	C3 - Complete a pattern using shapes
	C4 - To continue a 4 stage repeated pattern
	C5 - To create own pattern with two colours
	C6 - To create own patterns with three colours
Classification/sorting (Type of object/Colour/Shape)	Classification/sorting (Type of object/Colour/Shape)
Suggested Activities: Filling and emptying containers to develop a concept of placing items together. Matching items with are identical or very similar. Matching shapes. Beginning to sort by colour from a choice of two where colours are identical. Matching large to large and small to small. E1 - Fills containers E2 - Empties containers E3 - Rolls cylinders and spheres E4 - Match objects in relation to size i.e. place the big balls into the net and all the small balls into the bucket, with a correctly sized object already present E5 - Matches similar pictures E6 - Matches symbols D1 - Makes sets with the same amount in each container D2 - Matches colour from 2 D3 - Finds 2 the same size D4 - Matches 2D shapes circle, square, triangle	Suggested Activities: Sorting activities involving grouping items into grouping circles/containers/bags. Create a game (e.g. throwing coloured balls or foam shapes into the correct place. Starting to group items by similarity where they are not identical e.g. different tones of a colour or shapes of differing sizes. Sorting items according to their uses or properties. S1 - Sorts by colour in a familiar or different environment S2 - Sorts by type e.g. shoes and socks S3 - Sorts by shape S4 - Sorts by colour where colours are not identical (I.e. differing tones of colours) S5 - Identify shapes within a picture S6 - Sorts by type where items are not identical C1 - Shorts by shape where shapes are differing sizes and colours. C2 - Sorts by use (E.g. something I can eat, something I can wear, something I can play with) C3 - To sort 2D from 3D shapes C4 - Sorts shapes by other properties (E.g. will/will not roll, or

D6 - Sorts by size or type of object	C5 - Classifies items from most to least (E.g. most red to least red,
	or most square to least square)
	C6 - Classifies items by more than one criterion

Impact:

How we measure whether the implementation of the curriculum achieves our intent statements

- Learning walks
- Book Trawls
- Lesson Observations
- Drop-ins by SLT
- Subject Coordinator Scrutiny (For awareness Subject coordinators are not accountable for progress)
- Progress data & Target Setting
- Termly Progress Meeting with actions set
- Next Steps
- Formative Assessment (Work samples, written observations on progress sheets and photographs)
- Moderation of work
- End of year Reports (Academic)
- Annual Reviews of the pupil's EHCP
- Parent Workshops, Questionnaires & Parents Evenings
- Class team meetings and Phase Meetings
- Teacher and TA Appraisal
- Ofsted Inspections
- School Improvement Partner involvement in T&L Monitoring
- BEP/Local feedback on curriculum content
- Discussion of Curriculum at SLT Meetings
- Use of CPD time to review curriculum and agree ways forward
- Staff confidence questionnaires in teaching skills
- SLT Leadership and Management of the curriculum
- Teacher involvement in choosing motivating topics to gauge pupils' interests
- Robust monitoring of pupils' opportunities to take part in reading activities to read widely and often
- Assessment using WS P Steps, AET Progression Framework and Scales of Engagement