Little Saplings Progression of skills - Maths

Counting Number Ordering Numbers One less and subtraction One more and addition Number bonds Comparing number Doubling Sharing and halving Shape Patterns Weight Length and height Time Capacity

Pre preschool

Combine objects like stacking blocks and cups. Put objects inside others and take them out again.

- Take part in finger rhymes with numbers.
- React to changes of amount in a group of up to three items.
- Compare amounts, saying 'lots', 'more' or 'same'.
- Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence.
- Count in everyday contexts, sometimes skipping numbers '1-2-3-5.' Climb and squeeze themselves into different types of spaces.
- Build with a range of resources.
- Complete inset puzzles.
- Compare sizes, weights etc. using gesture and language 'bigger/ little/smaller', 'high/low', 'tall', 'heavy'.
- Notice patterns and arrange things in patterns

Preschool

- Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').
- Recite numbers past 5.
- Say one number for each item in order: 1,2,3,4,5.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5.
- Compare quantities using language: 'more than', 'fewer than'.
- Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Understand position through words alone for example, "The bag is under the table," with no pointing.
- Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc.
- Combine shapes to make new ones an arch, a bigger triangle, etc.
- Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc.
- Extend and create ABAB patterns stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

Early Number sense - Counting

Object Counting	(a) I can use one-to-one	(b) I can count up to 5	(c) I understand that objects	(d) I can count up	(e) I can count out a given
	correspondence when counting and	objects (including different	can be counted in any order	to 10 objects	amount up to 10
	understand that the last number said	sized objects) moving each	or arrangement and the	(including different	(identified verbally or
	is the number in the set.	as they are counted.	answer is still the same.	sized objects)	written) from a greater
				moving each as	set.
				they are counted.	
Matching	(a) I can use one to one	(b) I can count up to 3	(c) I can count up to 5	(d) I can count up	to 10 objects (including
quantities and	correspondence when counting and I	objects (including different	objects (including different	different sized object	ts), moving each as they are
numerals -				С	ounted.

Counting sets of	g sets of understand the last number said is			noving each	sized objects)	. moving ea	ch I ca	an match the set to the numeral.		
objects.	the number in the s		as they are o	_	-	e counted.				
objects.				ch the set to the I can match the s			e			
			numer	al.	num	neral				
Perceptual	(a) I can recognise fan	niliar	(b) I can identify quantities (c) I can identify quan			fy quantitie:	antities of (d) I can explore arrangements of quantities			
Subitising	arrangements for number	s up to 5	of objects up t	to 5 when	objects from	1 to 3 whe	n	within 5 using a ten frame		
	when on a dice or dor	mino	placed in a dice	or domino	arranged	randomly				
		arrangen								
Counting					ctures that canno			n count up to 10 pictures that cannot		
pictures that	moving each as they are	counted	ma	irking each a	s they are count	ed.	be mov	ved, marking each as they are counted		
cannot be										
moved.										
Counting	(a) I can count up to 10		(b) I can recog		en a ten frame i	s full this		e structured equipment number such		
Objects -	moving each as they are	·					as bundles of art straws, Unifix (tower of 10), Ten Frame with counters to create a group of 10 plus			
Counting	Count out a group of 10 ob					Frame with				
Beyond Ten	ond Ten a greater set						another group			
Counting Objects	(a) I can represent a given	(b) I can r	epresent a given (c) I can represent a given (d) I can				epresent my (e) I can represent my simple			
- Mathematical	amount up to 3 using						e mathematical mathematical ideas and calculati			
Representations	marks and pictures and					-	calculations	using pictures symbols and numerals		
and Graphics.	explain my jottings.	explain m	·				ıres symbols	and are beginning toexplain it.		
						and numerals and				
						explain it.				
• • • • • • • • • • • • • • • • • • • •	(1)	(1.)					can represent my simple mathematical ideas and			
Counting Objects - Mathematical	(a) I can represent a given amount up to 3 using		epresent a given p to 5 using	-		(a) I	•	•		
Representations	objects and pictures.		nd pictures.	objects and	_		Calculations	using objects and pictures.		
Representations	objects and pictures.	Objects at	ia pictures.	objects and	i pictures.					
Comparing	(a) I can identify a set that	(b) I can id	dentify a set (c) I can identify a set that has more a			nas more an	e and (d) I am beginning to identify a set that has more			
groups of objects	has more and a set that	that has n	nore and a set	, · · · · · · · · · · · · · · · · · · ·			and a set that has fewer using the correct			
or numbers	has fewer by pointing/	that has f	ewer by	language.			language.			
	highlighting when	pointing/	highlighting	(Range up t	to ten)					
	requested. when reque									
	(Sets are very obviously	(Range up	to ten)							
	different)									

Numbers- Read	ing and Writing				
Recognising and ordering numerals	(a) I can name the numerals 1-3 when shown out of order and I can place these numerals in order.	(b) I can name the numerals 1-5 when place these numera	(c) I can name the numerals 1-10 when shown out of order and I can place these numerals in order.		
Ordering numerals	(a) I can put the numerals 0 to 5 in order when all are given	(b) I can put the numerals 0 to 9 in order when all are given	(c) I can put the numerals 0 to 10 in order when all are given	(d) I can find the numeral that comes before, after or between a given numeral in a range to 10.	
Recording numerals	(a) I can make marks to represent numerals.	(b) I am beginning to write the numerals 1 to 3 for a given purpose.	(c) I can write the numera 0 to 5 for a given purpose		
Ordering number	ers and Number Representat	ions.	1	,	
Ordering pictorial number representations.	(a) I can order the pictorial representations of the numbers from 0-5.	(b) I can order the pictorial representations of the numbers from 0-9.	(c) I can order the pictorial representations of the number from 0-10.		
Ordinal Numbers	(a) I can follow instructions including ordinal numbers for first, second and third. (Lining up. Order in a game/ race)	(b) I can follow instructions including ordinal numbers for first, second, third-tenth. (Lining up. Order in a game/race)	(c) I can correctly use som ordinal numbers in context, or lining up or racing.	· · · · · · · · · · · · · · · · · · ·	
Ordering numerals	(a) I can put the numerals 0 to 5 in order when all are given	(b) I can put the numerals 0 to 9 in or	rder when all are given (c) I can put the numerals 0 to 10 in order when all are given	

Finding one less	and Subtraction							
Finding one less/ one fewer (objects)	(a) I understand the concept of finding one less object as removing one amount from within another.	used when coun	wer and less mean the ting objects and remokisting group. (Working	ving/ taking away obj	jects			
Rote counting backwards	(a) I can join in with rote count from 1-10	(b) I c	(b) I can rote count backwards from 5 to 1				t backwards from 10 to 1	
Counting Back		(a) I understand the concept of take away and counting back one as the removal of one object.				se number lines t , 2 or 3 more jum	o count back small jumps ps.	
Problem Solving with subtraction	(a) I can solve simple problems using numbers to 5 with 1:1 support.	(b) I can solve simple	I can solve simple problems using numbers to 5 with within a group.				oblems using numbers to ore different ways using in ideas. ting and sharing.	
Finding one mor	<u>re and Addition</u>							
Finding one more	(a) I understand that to find one more, I need to add one object to an existing group of objects.) I understand how to find one more object with sets in a range up to 5 by correctly adding on one more object.			unting sequence v or the number that	re is the next number in when counting forward in nes. is one more within 1-5 by lines and mental recall.	
Counting On	(a) I understand the concept of addition as combining sets of objects	(b) I know that two/three/four more is found by adding two/three/four objects to an existing group of objects	(c) I recognise that more and another more is one more, one mo	one more, three and one more and	can us to co jump	inderstand and se number lines ount on small ps of 1, 2 or 3 nore jumps.	(e) I can count on smaller numbers using mental calculation.	

Addition - combining sets of objects	(a) I am beginning to und the concept of addi combining sets of o	tion as		that the terms a combining grou	add, total, altogether ips of objects		c) I can combine two groups of objects total within 5) counting how many are there.			
Comparison										
More than/less than					(c) I can compare two groups of the same objects e.g. 2 groups of cubes.	objects (w	here ther g. more s	vo groups of different sized re are more of the smaller small beads and less large simal toys.		
Identify groups with the same number of things	(a) I am beginning to unde groups car				then a group is 'equal 'the same'.	(c) I can check a group is equal by matching objects on a one-to-one basis.				
Assessment Focus (4): Combine two numbers (numerals) to double a number. – Developing mental recall.	(a) I am beginning to understand that to double, I need to add the same small number to itself. (1-3)	add the	derstand that to double, I need to same small number to itself. I can this with some support. (1-3)		(c) I understand that to double, I need to add the same number to itself. I can double the numbers 1-5.		uble, I ld the ber to le the	(e) I understand that to double, I need to add the same number to itself. I can double the numbers 10+		
Shape Naming and identifying 2D & 3D Shapes	(a) I can identify (point to) som	to) some of the common 2D 3D shapes for star, circle, and square.				•		and name the o		egular 2D 3D shapes for circle, angle/oblong.
Describing Shapes	(a) As I play with and explore shapes, I can use informal language such as pointy, round or flat.	pes, I can use informal 'straight', 'flat', 'curved' and 'edges' as I explore that age such as pointy, round and identify shapes in the environment.		t', 'curved' and 'edges' as I explore		derstanding s refer to <u>2D</u> ntify these on napes.	faces an	n show an understanding that and solid refer to 3D shapes, and entify and talk about these on common 3D shapes.		

Spatial Reasoning	(a) I can match simple shapes by finding a sha that is the same.		(b) I can complete a simple jigsaw or shape puzzle.					-	g jigsaws and shape puzzles, I can v I chose a particular shape.		
Patterns (of a sh	ape not numbers)						1				
Repeating	(a) I am beginning to r	ecognise when a set of	(b) I can identify a simple (c) I can talk			n talk about,	alk about, copy, continue and				
Patterns	•	placed in a repeating they are not and talk	·	attern, and I ne pattern is			continue and	make a si	mple abcabc patterns (3) and		
	· ·	formal language E.g.,		ue, red, blue			simple ababab pattern.	l not	abbabb patterns. iice mistakes in patterns.		
		d points.		, ,			e mistakes in		μ		
				patterns.							
<u>Measures - Weig</u>							A				
Comparing Weights	(a) I can make comparisons and compare the weight of 2 items. (b) I can find another item of similar weight to a given one.							weight to a given one.			
Using balances		happens when two objentions in side of a balance scale.	(b) I can use a balance scale to compare the weights of two objects. I understand the lower side is the heavier object and the higher side contains the lighter object.					object	(c) I understand that if the balance scale is level, the objects being compared are equal in weight.		
Using mathematical	(a) I understand that weight refers to	(b) I can identify (poi	•	(c) I can co	•		(d) I can corre	•	• •		
language to	how heavy or light	heavy and light object v	wiieii askeu	referring	neavy' w : to an ol		term, 'light' when referring terms heavy/ hear to an object. heaviest, light, light,				
describe measuring	an object is.				,	´		•	lightest as I compare,		
weight.									describe and order the weight of objects.		
Measures – Leng	th and width										
Comparing Lengths		e direct comparisons and gth/height/width of 2 ite	•	e	(b) I (can find a	nother item of s	imilar length	n/height/width to a given one.		
Using	(a) I understand that	(b) I can identify (point						•	(e) I am beginning to		
mathematical	length refers to how long or short an	and short object wher	n asked to.	correctly		-	term, 'short shortest' wher		correctly use the terms, long/ longer/ longest,		
language to describe	object is.		'long/ longer/ longest' sh when referring to an			an obj	_	short/ shorter/ shortest', as			
measuring				O	bject.				I compare, describe and order the length of objects.		
length/ height									order the length of objects.		
Measures – Time	2										

				1						
Using language to					n use the word	1 - 1	eginning to use	(e) I can understand and		
describe the	that I can compare	understanding tha			understanding		rstand that the	correctly use language –		
passing of time.	events using words	preceding a particu	lar event and	that i	t refers to the	word 'yest	erday', refers to	before, after, yesterday,		
, ,	such as 'before' and	that the word 'aft	er' refers to	CL	ırrent day.	the day be	efore today and	today, tomorrow		
	'after'.	. following a particular event or			'ton		refers to the day	/		
		item.				aft	er today.			
Measuring time:	(a) I can talk about	(b) I understand an	d can use the	e (c) I can sequence two or three		or three	(d) I can seq	uence four or more familiar		
Sequencing	significant times of	words 'before' and	'after' when	famili	ar events and des	scribe the	events an	nd describe the sequence.		
familiar	the day, e.g. home	describing the order	of two events.	seguen	ce using everyday	/ language.		·		
	time, lunch time,			'	sequence using every any language.					
events/the day.	snack time,									
	bedtime, etc.									
Measures – Capa	·									
_							1			
Vocabulary for	(a) I can understan	d that capacity refer	s to how	(b) I can	use the terms fu	ıll and empty	y to (c) I d	(c) I can use the terms nearly full		
filling	much a contain	er can hold when it i	is full	de	describe volume / capacity			and nearly empty to describe		
							volume			
Camananina	(a) I as a same a sa the		(la) I ava la a					af there a inheretical countains a		
Comparing	(a) I can compare th				order a set of th			of three identical container		
capacities	the same container	rs holding different		ntainer fro	m most full to le	east	from least full to most full			
	amo	unts	full							
Comparing	(a) Lundarstand th	hat comparing the	lumo of turo	of the	(b) Lundard	tand that say	mnaring the ve	luma of two of the same		
Comparing		hat comparing the vo			· · ·					
volume		at hold different amo		r if they	containers tha					
	ć	are near to each oth	er	the same level						