EYFS MATHEMATICS SKILLS PROGRESSION



Teacher

There are six main areas that collectively underpin children's early mathematical learning, and which provide the firm foundations for the maths that children will encounter as they go up the years in primary school.

They are:

Cardinality and Counting: understanding that the cardinal value of a number refers to the quantity, or 'howmanyness' of things it represents

Comparison: understanding that comparing numbers involves knowing which numbers are worth more or less than each other

Composition: understanding that one number can be made up from (composed from) two or more smaller numbers

Pattern: looking for and finding patterns helps children notice and understand mathematical relationships

Shape and Space: understanding what happens when shapes move, or combine with other shapes, helps develop wider mathematical thinking

Measures: comparing different aspects such as length, weight and volume, as a preliminary to using units to compare later.

https://www.ncetm.org.uk/resources/52500

$\label{lem:complex} \textbf{Guidance for teachers in EYFS ($https://whiterosemaths.com/resources$)}$

The five counting principles

The one-one principle.	The stable-order principle.	The cardinal principles.	The abstraction principle.	The order-irrelevance principle.
This involves children assigning	Children understand when	Children understand that the	This involves children	This involves children
one number name to each object	counting, the numbers have to be	number name assigned to the	understanding that anything can	understanding that the order we
that is being counted. Children	said in a certain order.	final object in a group is the total	be counted including things that	count a group of objects is
need to ensure that they count		number of objects in that group.	cannot be touched including	irrelevant. There will still be the
each object only once ensuring			sounds and movements e.g. jumps.	same number.
they have counted every object.				

Key Language for Teachers

Cardinal — The number that indicates how many there are in a set.	Classification — The identification of an object by specific attributes, such as colour,
	texture, shape or size.
Conservation (of number) — The recognition that the number stays the same if none have	Numeral — The written symbol for a number; e.g. 3, 2, 1
been added or taken away.	
Ordinal — a number denoting the position in a sequence e.g. 1^{st} , 2^{nd} , 3^{rd} , etc or page 1,	Partition — separate a set into two or more subsets e.g. partition a set of socks into plain
page 2, page 3	and patterned.
Subitise — Instantly recognise a small quantity, without having to count how many there	Number — Number can be:
are.	 a count of a collection of items e.g. three boxes,
	 ■ a measure e.g. of length or weight, or
	• a label e.g. the number 17 bus
Quantity — The amount you have of something e.g. a cup of four, three boxes, half an hou	r.

Key						
The 6 main areas of EYFS maths						
Nursery skills						
Reception skills						

				Ε>	FS I	Mathe	matic	s Prog	ression	r Ch	art					
					Number	r and Plac	ce Value	- Cardina	ility and	Countin	ıg					
Counting: saying nur sequence		unting: tagging e e number word	ach object w			g the last nu total so far	mber	Subitising: quantities v them all	J J			reral meanin	gs	number rearrang	does not cl	ving that the hange if things are .g as none have been vay)
				Cou	inting -	– object co	unting sk	ills progres	sion 0-5.	0-10, 0	0-20					
Use language associated with counting, such as "more", "a lot", "less".	Say number names to count objects, not necessarily in the right order or at the right speed.	Begin to develo one-to-one correspondence and say one number name each object.	object them		Can cou they can or see, so pictures on a wa sounds.	uch as	Know that objects are moved, spout, or moleoser togethat the tremains the same.	re l oread s woved r ether i total	ínows that ast number ay represer umber of n a group.	~ they rts the	Give some specified n of objects. Count out specified n of objects larger gro	umber of a sumber of from a contact of a con	subitise small imounts of object irranged on a egular attern, such as ice pattern. Subitise small imounts of object irranged in an cregular pattern.	the group wi more a objects in, or choosing the which has c to ten objects.	osing p th c	Can count on when part of a set of sbjects is hidden.
					Rote	counting -	- skills pr	ogression C	-5, 0-10	, 0-20		ľ	regular partierre	•		
Can say some counting words randomly.	Can say the nun names in order i an unbroken string forwards. Can say the nun names backward an unbroken stri	n the order numbers is and will n aber s in	of s fixed	Recognise the significance an value of zero.		Can say th before or at number, dr back to one	ter a opping	Can say th number bef after a num without dropping ba one.	ore or nber, ck to	in differ forward Can sto in differ backwar	p and start rent places	keep tro many t counted Can co keep tro	unt back and uck of how hey have	Can see the recurring patter our number syst and use this to b them count high	r in nu em relp	n enunciate each mber clearly.
					Num	iber Recogi	rition, Rep	presentation	ı and Or	dering						
Can distinguish repres numerals numb from using letters. For finger example, by marks pointing to paper a numeral pictur when sharing a familiar book with an adult.	ers matching numeral to s, a numeral s on that is or shown to	Can recognise a numeral from I to 3 and find the matching number of objects.	Can sometimes match numeral to quantity.	Can record using marks that they can interpret and explain.	Can recogni numero to 5, tl O to IC when tl are pla in orde such a: reading along o number line.	se num als 0 fron hen then on and som iced repr cer, corr s g	read a heral O to 5, O to 10 etimes esent it ectly.	Can order objects, such as towers of bricks or pictures, visually ordering numbers by saying which number is the largest /smallest.	Can recognis numera O to 5, then O IO wher placed of	se nu ls to to out	un order umerals O 5.	Can place consecutive numerals in order initially with numbers from 0 to 10, then progressing to numbers 0 to 20.	Through a meaningful context, such as point scoring games, children can place their scores in order.	Can place consecutive numbers in order starting from a number other than one.	Can pla non- consecut numbers order. Initially numbers from O IO, then progressi to numb O to 20	numbers in order from smallest to greatest with and from greatest to to smallest.

						Number and	Place Value	- Comparison	n					
More than /	less than			dentifying groups v	vith the same nu	mber of things	Compar	ring numbers an	d reasoning			`one more than ting numbers	/one less than' r	elationship
			•			Comparing	Numbers and	d Quantities						
Recognise when a group of objects is more than one.	Can indicate, for example by pointing, which group of objects has more' objects.	Uses number language, such as 'more' and 'a lot'.	Can indicate, for example by pointing, which set has more of which set has less.	such as 'less' or 'fewer'.	Can indicate, for example by pointing, which group of objects has 'fewer' objects.	Recognise groups with one, two or three objects and begin to make comparisons between quantities, using the language of `more' and `fewer'.	Match groups of objects with the same number.	Compare two groups of objects, saying when they have the same number.	Know that the quantity of objects stays the same when they are spread out or moved closer together. Understand that objects will appear different if they are spread out or different sizes.	Say the number that comes after a given number in the sequence one to five, progressing to numbers from one to ten.	Say the number that comes before a given number in the sequence one to five, progressing to numbers from one to ten.	Can find one more than a number to five, progressing to numbers to ten.	Can find one less than a number to five, progressing to numbers to ten.	Can find one more and one less than a number to five, progressing to numbers to ten.

								Addition	on and subtr	raction - Co	mpositio	on							
within a n	number (cond	ng smaller nur ceptual subitis nbining to a to	ising —	Inverse oper	rations				oer can be parti numbers	itioned into dif	ferent		ımber can numbers	ı be partition	ned into more		lumber bonds: k iven number	cnowing which pai	irs make a
	•								Ad	ldition									
Know that numbers identify how many objects are in a set.	Separate a group of three or four objects in different ways, beginning to recognise that the total is still the same.	Know that a group of things changes in quantity when something is added.	Compar e sets of objects, saying when they have the same number.	Compare sets of objects, saying which has more objects.	Compare sets of objects, saying how many more are in each set.	Find one more than a number from one to ten.	Say the number that is one more than a given number	Know that numbers are made up of different numbers. For instance, four can be four and zero, one and three or two and two.	different ways, using t equipment, five or ten- frames, part-part- whole models, number lines, stories.		d Find total number of iter in two groups countiall of them.	ting r	Select two groups of objects to make a given total of objects.	Recognise the number of objects without counting. (O-5) (Subitise)	Find out the 'total' or 'how many altogether' after two sets have been combined.	Count on to add.	Uses vocabulary of equals: makes, balances, same, total.	Use vocabulary of addition: how many altogether, plus, more.	Understand addition as an increase.
	T									traction		1							
Know that numbers identify how many objects are in a set.	Know that a group of things changes in quantity when something is taken away.	objects from a	t Compare sets of objects, saying when the have the same number.	sets of objects, saying which h e fewer objects.	sets of objects, saying has how ma	by count a grown any of object out the number of and the number out the number out and the count the number out the number of the number	less ting a n oup fror dijects, to t ting the ber to	s than number ar up ten dif nu Fo exc	umbers numbers different equipments. succorrect cample, fra pur can par e four numbers, numbers and line	imbers in the fferent of	btracting	the ef	effect racting full unt.			Use vocabulary of equals: leaves, balances, same, total.	Use vocabulary of subtraction: take away, how many left, subtract, minus.	Use vocabulary of comparison in practical contexts: how many fewer? How much shorter/cheaper than?	Understand subtraction as a decrease.

 				-		Mul	tiplication a	nd Divi	ision — Num	erical Pat	terns	-					
Learn that double means 'twice as many'	they bu	loubles as uild them, ouble 2 is 4	Look at doul and non-dou and sort ar explain wh	ubles into and gro ay. ider gr	roups and entify when roups are	Know that half is one of 2 equal parts. Explore sharing between 3 or 4 people.	Understan that when quantities a shred into equal group with no iter left over an even.	n quare qu 2 sh ps ea ms w	Understand that when uantities are shred into 2 equal groups with one left over are odd.	Understa the odd a even struc on Numic and ter frame.	and gr ture po con n	explore odd and ever rouping quantities i airs/groups of 2.	into	Recognise even quan can be gro into pairs odd quant will have left on their when they grouped i pairs.	atities ouped co and i tities one r own y are into	Solve practical problems, combining objects into groups of 5.	Solve practical problems, combining objects into groups of IO.
							Ç	ieometr	y – Patterns								
5	Copying an AB pattern	n own	n AB er	Spotting an error in an AB pattern	ldentifying unit of rep	,	C patter ends	inuing a rn which mid-unit	n own ABB, it ABBC patterns	error ABB 1	ing an in an pattern	Symbolising the unit structure	Generalis structure another context or mode	es to pat	aking a ttern whic peats ound a rcle	Making a ch pattern around a border with a fixed number of spaces	
							Geom	etry - S	Shape and S	pace							
Developing spo awareness: exper different viewp	riencing	Developing vocabulary	<i>-</i>	Represen relations	nting spatial .ships	Shape awar developing s awareness t construction	shape through	la	ldentifying simil between sha			g awareness of ees of shape	Descrik	ibing propert shape	ties of	Developing an aw relationships betw	
								Me	easures								
Recognising attr	ributes		ing amounts of lous quantities	Showing comparis estimatir predictin	ing and	Compari	ing indirectly		cognising the rel veen the size an of units		9	ng to use units to mpare things	Beginning sequence	g to use tim events	ne to	3 3	xperience specific urations

	Reception	
	Number and Place Value – Numbers to 5	One, two, three
		Four
		Five
Autumn	Addition and Subtraction — Sorting	Sorting into groups
tu	Number and Place Value – Comparing Groups	Comparing quantities of identical objects
Pμ		Comparing quantities of non-identical objects
	Addition and Subtraction – Change within 5	One more
		One less
	Measurement - Time	My day
	Addition and Subtraction – Numbers to 5	Number bonds to 5
	Number and Place Value – Numbers to 10	Counting to 6, 7 and 8
		Counting to 9 and 10
6		Comparing groups to 10
Spring	Addition and Subtraction – Addition to 10	Combining two groups to find the whole
Spr		Number bonds to 10 — ten frame
• ,		Number bonds to 10 — part-whole model
	Geometry – Shape and space	Spatial awareness
		3-D shapes
		2-D shapes
	Geometry — Exploring Patterns	Making simple patterns
		Exploring more complex patterns
	Addition and Subtraction – Count on and back	Adding by counting on
٤		Taking away by counting back
Summer	Number and Place value – Numbers to 20	Counting to 20
Ĕ	Multiplication and Division — Numerical Patterns	Doubling
Su		Halving and sharing
		Odds and evens
	Measurement - Measure	Length, height and distance
		Weight
		Capacity

		Nursery
	Number and place value —	rote counting (0-5)
		Counting objects-
		- Use language associated with counting, such as "more", "a lot", "less".
		- one-to-one correspondence and say one number name for each object (0-3)
		Number Recognition, Representation and Ordering (0-3)
2		 Can represent numbers using fingers, marks on paper or pictures. Can pick out a matching numeral to a numeral that is shown to them.
Autumn		- Begin to recognise a numeral from 1 to 3 and find the matching number of objects.
1 2		Comparing Numbers and Quantities
₽		- Recognise when a group of objects is more than one.
		- Uses number language, such as 'more' and 'a lot'.
		- Can indicate, for example by pointing, which set has more or which set has less.
	Space and space	Develop spatial awareness: experiencing different viewpoints (riding trikes around interesting routes, construction activities,
	Measure	printing with shapes, posting boxes, jigsaws, making a complete circuit with a train track) Recognising attributes (length, capacity, weight - big, tall, full or heavy)
	Number and place value —	rote counting (0-5/0-10)
		Counting objects - one-to-one correspondence and say one number name for each object.
		- Move or touch objects to count them.
		Number Recognition, Representation and Ordering
		- Can represent numbers using fingers, marks on paper or pictures.
		- Can pick out a matching numeral to a numeral that is shown to them.
		- Can recognise a numeral from 1 to 3 and find the matching number of objects.
Spring		- Can sometimes match numeral to quantity.
Ĭ.		Comparing Numbers and Quantities - Uses number language, such as 'less' or 'fewer'.
Sp		- Recognise groups with one, two or three objects and begin to make comparisons between quantities, using the language of
		'more' and 'fewer'.
	Composition - Addition and	Separate a group of three or four objects in different ways, beginning to recognise that the total is still the same.
	Composition - Addition and Subtraction	Separate a group of three or four objects in different ways, beginning to recognise that the total is still the same. Count out objects from a larger group.
	Subtraction	Count out objects from a larger group.
	Subtraction	Count out objects from a larger group. Develop spatial vocabulary: position and direction
	Subtraction Space and space	Count out objects from a larger group. Develop spatial vocabulary: position and direction Develop spatial vocabulary: terms which are relative to the viewpoint(in front of', 'behind', 'forwards',' backwards')
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Summer	Subtraction Space and space Measures Number and place value — Space and space Measures	Count out objects from a larger group. Develop spatial vocabulary: position and direction Develop spatial vocabulary: terms which are relative to the viewpoint(in front of', 'behind', 'forwards',' backwards') Comparison amount of continuous quantities(direct comparison of two objects) — length Comparison amount of continuous quantities(direct comparison of two objects) — weight rote counting (O-IOI/O-20) Counting objects - one-to-one correspondence and say one number name for each object. - Move or touch objects to count them Number Recognition, Representation and Ordering - Begin to recognise a numeral from I to 5 and find the matching number of objects. - Can sometimes match numeral to quantity (O-5). - Can record using marks that they can interpret and explain. Comparing Numbers and Quantities - Recognise groups with one, two or three objects and begin to make comparisons between quantities, using the language of 'more' and fewer'. - Match groups of objects with the same number. - Compare two groups of objects, saying when they have the same number. Shape awareness: developing shape awareness through construction Identifying similarities between shapes (representing a ball as a circle, building a train from wooden rectangular blocks, or using a curved block for the elephant's trunk.) Comparison amount of continuous quantities(direct comparison Of two Objects) — weight
Summer	Subtraction Space and space Measures Number and place value — Space and space Measures Ceometry - Patterns	Count out objects from a larger group. Develop spatial vocabulary: position and direction Develop spatial vocabulary: terms which are relative to the viewpoint(in front of, 'behind', 'forwards',' backwards') Comparison amount of continuous quantities(direct comparison of two objects) — length Comparison amount of continuous quantities(direct comparison of two objects) — weight rote counting (0-10)/0-20) Counting objects - one-to-one correspondence and say one number name for each object. - Move or touch objects to count them Number Recognition, Representation and Ordering - Begin to recognise a numeral from 1 to 5 and find the matching number of objects. - Can sometimes match numeral to quantity (0-5). - Can record using marks that they can interpret and explain. Comparing Numbers and Quantities - Recognise groups with one, two or three objects and begin to make comparisons between quantities, using the language of 'more' and 'fewer'. - Match groups of objects with the same number. - Compare two groups of objects with the same number. - Compare two groups of objects, saying when they have the same number. Shape awareness: developing shape awareness through construction Identifying similarities between shapes (representing a ball as a circle, building a train from wooden rectangular blocks, or using a curved block for the elephant's trunk.) Comparison amount of continuous quantities(direct comparison Of two Objects) — weight Simple AB patterns
Summer	Subtraction Space and space Measures Number and place value — Space and space Measures Ceometry - Patterns Composition - Addition	Count out objects from a larger group. Develop spatial vocabulary: position and direction Develop spatial vocabulary: terms which are relative to the viewpoint(in front of, 'behind', 'forwards',' backwards') Comparison amount of continuous quantities(direct comparison of two objects) — length Comparison amount of continuous quantities(direct comparison of two objects) — weight rote counting (0-10)/O-20) Counting objects one-to-one correspondence and say one number name for each object. Move or touch objects to count them Number Recognition, Representation and Ordering Begin to recognise a numeral from 1 to 5 and find the matching number of objects. Can sometimes match numeral to quantity (0-5). Can record using marks that they can interpret and explain. Comparing Numbers and Quantities Recognise groups with one, two or three objects and begin to make comparisons between quantities, using the language of 'more' and 'fewer'. Match groups of objects with the same number. Compare two groups of objects, saying when they have the same number. Shape awareness: developing shape awareness through construction Identifying similarities between shapes (representing a ball as a circle, building a train from wooden rectangular blocks, or using a curved block for the elephant's trunk.) Comparison amount of continuous quantities(direct comparison Of two objects) — weight Simple AB patterns Know that a group of things changes in quantity when something is added.