Year 1. Maths Long term plan. Small step progression 2024 – 2025

Previous reception experiences and counting within 100 (cp unit 1)

National Curriculum	NCTEM 'suggested steps'	KPI small step progression
	Pupils count within 100 in different ways	Counting element to start each daily lesson and this threaded throughout year

Comparison of quantities and part-whole relationships (cp unit 2)

National Curriculum	NCTEM 'suggested steps'	KPI small step progression
See below.	Pupils explain that items can be compared using length and height	Small steps covered in reception but also threaded through new CP unit 3and 5.
	Pupils explain that items can be compared using weight/mass and volume/capacity	
	Pupils count a set of objects	
	Pupils compare sets of objects	
	Pupils use equality and inequality symbols to compare sets of objects	
	Pupils use equality and inequality symbols to compare expressions	
	Pupils explain what a whole is	
	Pupils explain that a whole can be split into parts	
	Pupils explain that a whole can represent a group of	
	objects	
	Pupils identify a part of a whole group	
	Pupils explain what a part-whole model is	
	Pupils use a part-whole model to represent a whole	
	partitioned into two parts	
	Pupils use a part-whole model to represent a whole	
	partitioned into more than two parts	

Numbers 0 to 5 (NCETM unit 3) Numbers 6 to 10 (unit 5)

National Curriculum	NCETM 'suggested steps'	KPI small step progression
	Pupils explain that numbers can represent how many	To count forwards to 10
Place value to 10	objects there are in a set	To count backwards from 10
Number – number and place value	Pupils explain that ordinal numbers show a position and	
Pupils should be taught to:	not a set of objects	Partition of 5 using part part whole with apparatus
count to and across 100, forwards and backwards,	Pupils partition numbers one to five in different ways	Partition up of 5 using part part whole pictorially
beginning with 0 or 1, or from any given number within	Pupils partition the numbers one to five in a systematic	Partition to 5 using bar model
10	way	Partition up to 5 in different ways
count, read and write numbers to 10 in numerals;	Pupils find a missing part when one part and the whole	
given a number, identify one more and one less	is known	Partition up to 10 using part whole model
identify and represent numbers using objects and	Pupils show one more and one less than a number using	Partition up to 10 using bar model
pictorial representations including the number line, and	representations. Pupils describe this accurately.	
use the language of: equal to, more than, less than	Pupils use a bar model to represent a whole partitioned	Partitioning in real life contexts
(fewer), most, least	into two parts	To work out a missing part.
read and write numbers from 1 to 10 in numerals and	Pupils count a set of objects and match the spoken	
words.	number to the written numeral and number name	One more with concrete
	Pupils represent the numbers 6 to 10 using a five and a	One less with concrete
	bit structure	One more one less on number line
	Pupils identify the whole and parts of the numbers 6 to	
	10 using the five and a bit structure	Comparing objects
	Pupils explore the numbers 6 to 10 using the part whole	Ordering objects
	model and the five and a bit structure	
	Pupils explain where 6, 7, 8 and 9 lie on a number line	Ordering numbers with pictorial
	Pupils explain what odd and even numbers are and the	Ordering numbers
	difference between them	Ordinal numbers
	Pupils explain how even and odd numbers can be	Ordinal numbers
	partitioned	Lice number line to compare numbers
	Pupils partition numbers 6 to 10 in different ways	Order numbers on number line
	Pupils partition the numbers 6 to 10 in a systematic way	
	Pupils identify a missing part when a whole is partitioned	
	into two parts	

Additive structures (NCETM cp unit 6)

National Curriculum	NCETM 'suggested steps'	KPI small step progression
	Pupils combine two or more parts to make a whole	Understanding addition and equals symbol
Number – addition and subtraction (within 10)	Pupils explain that addends can be represented in any order.	Reasoning about addition
Pupils should be taught to:	This is called the commutative law	
read write and interpret mathematical statements	Pupils explain that the = sign can be used to show that the	4 Fact families
involving addition $(+)$ subtraction $(-)$ and equals $(=)$	whole and the sum of the parts are equal 1	To know number bonds of 10
cigns	Pupils explain that the = sign can be used to show that the	
signs	whole and the sum of the parts are equal 2	Adding more (using useesh and writing coloulation)
represent and use number bonds and related	Pupils add parts to find the value of the whole and write the	
	equation	Adding more (using counting on skill)
add and subtract one-digit numbers to 10, including zero	Pupils find the missing addend in an equation	Finding a part
solve one-step problems that involve addition and	Pupils partition a whole into two parts and express this with a	
subtraction, using concrete objects and pictorial	subtraction equation	Understand take away
representations, and missing number problems such as	Pupils make addition and subtraction stories and write	To use subtraction symbol
7 = -9.	equations to match	To take away
	Pupils represent 'first, then, now' stories with addition	
	equations (1)	Subtraction – breaking apart
	Pupils represent 'first, then, now' stories with addition	8 fact families
	equations (2)	
	Pupils represent 'first, then, now' stories with subtraction	
	equations (1)	
	Pupils represent 'first, then, now' stories with subtraction	
	equations (2)	
	Pupils represent different types of stories with subtraction	
	calculations	
	Pupils make addition and subtraction stories, writing	
	equations to match	
	Pupils work out the missing part of an addition story and	
	equation if the other two parts are known	
	Pupils work out the missing part of a subtraction story and	
	equation if the other two parts are known	
	Pupils explain that addition and subtraction are inverse	
	operations (1)	
	Pupils explain that addition and subtraction are inverse	
	operations (2)	
	Pupils use additive structures to think about addition and	
	subtraction equations in different ways	

Addition and subtraction facts within 10 (NCETM CP unit 7)

National Curriculum	NCETM 'suggested steps'	KPI small step progression
As above	Pupils explain that addition is commutative	Previous unit
	Pupils find pairs of numbers to 10 (1)	Previous unit
	Pupils find pairs of numbers to 10 (2)	
	Pupils add and subtract 1 from any number	Covered in 1 more and I less questions linked to then $+ 1$ and $- 1$ questions after addition and subtraction units are covered
	Pupils explain what the difference is between	
	consecutive numbers	
	Pupils explain what happens when 2 is added to or subtracted from odd and even numbers	Mastering number lesson
	Pupils explain what the difference is between	Mastering number lesson
	consecutive odd and even numbers	
	Pupils explain what happens when zero is added to or	Covered in prev unit
	subtracted from a number	
	Pupils explain what happens when a number is added to	
	or subtracted from itself	
	Pupils double numbers and explain what doubling	Mastering number lesson
	means	
	Pupils halve numbers and explain what halving means	Covered in mastering number lessons plus addition and subtraction to 20 unit
	Pupils use knowledge of doubles and halves to calculate	Mastering number lesson
	near doubles and halves	Near doubles in Y2
	Pupils represent different types of stories with	
	subtraction calculations	
	Pupils use knowledge and strategies to add 5 and 3 and	7 tree and 9 square covered in mastering number slot.
	6 and 3	

National Curriculum	NCETM 'suggested steps'	KPI small step progression
	Pupils compose pattern block images	Compose 3D models
Geometry – properties of shapes	Pupils copy, extend and develop repeating and radiating	Name 3D shapes
Pupils should be taught to:	pattern block patterns	Sort 3D shapes
recognise and name common 2-D and 3-D shapes,	Pupils compose tangram images	
including:	Pupils investigate tetromino and pentomino	Recognise 2D shapes
2-D shapes [for example, rectangles (including squares),	arrangements	Compose 2D shapes (use tangram images)
circles and triangles]	Pupils investigate ways that four cubes can be composed	Sort 2D shapes
3-D shapes [for example, cuboids (including cubes),	into different 3D models	Reason about 2D shapes (use circles and triangles)
pyramids and spheres].	Pupils explore, discuss and compare 3D shapes	
	Pupils identify 2D shapes within 3D shapes	To recognise patterns
	Pupils explore, discuss and compare 2D shapes	To solve problems involving 2D shape.
	Pupils explore, discuss and identify circles and shapes	To continue patterns.
	that are not circles from shape cut-outs	
	Pupils explore, discuss and identify triangles and shapes	
	that are not triangles from shape cut-outs	
	Pupils explore, discuss and identify rectangles (including	
	squares) from shape cut-outs	

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Measurement - Time		Covered in daily calendar maths
Pupils should be taught to:		
 sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years 		
 tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. 		Covered at end of Autumn 2, beg of spring 1, beginning of summer 2 during mastering number slots.

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Place value to 20	Pupils explain that the digits in the numbers 11 to 19	Count forwards and backwards
Number – number and place value	express quantity	the desident devices of the second second
Pupils should be taught to:		Understand value of teen numbers Making teen numbers with tens frames
count to and across 100, forwards and backwards,	Pupils explain that the digits in the numbers 11 to 19	Making teen numbers with dienes and part part whole
beginning with 0 or 1, or from any given number within	express position on a number line	Identify teen numbers of diff pictorial representations
20	Pupils identify the quantity shown in a representation of	······, ······
given a number, identify one more and one less	numbers 11 to 19	Use knowledge of '10 and a bit' to solve problems
identify and represent numbers using objects and		
pictorial representations including the number line, and		Identify one more, one less within 20
use the language of: equal to, more than, less than	Pupils use knowledge of '10 and a bit' to solve problems	
(fewer), most, least		Comparing objects and numbers
read and write numbers from 1 to 20 in numerals and	Pupils use knowledge of '10 and a bit' to solve problems	Ordering pumbers on a number line
words.		
	Pupils explore odd and even numbers within 20	During Mastering number session

Numbers 0 to 20 (NCETM unit 8) continued...

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Number – addition and subtraction (within 20) Pupils should be taught to: read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	Pupils double the numbers 6 to 9 and halve the result, explaining what doubling and halving is Pupils use knowledge of addition facts within 10 to add within 20 Pupils use knowledge of subtraction facts within 10 to subtract within 20	Know doubles and halves up to 10 Know doubles and halves to 20 Add by counting on or by using known facts Solve subtraction by counting back on a number line Solve subtraction by counting back or by using known facts
subtraction facts within 20 add and subtract one-digit and two-digit numbers to 20.	Pupils use knowledge of addition and subtraction facts within 10 to add and subtract within 20	Find the difference To know number bonds of 10 and 20
including zero solve one-step problems that involve addition and	Pupils measure one object with different non-standard measures and record outcomes	See measurement unit end of summer term
subtraction, using concrete objects and pictorial	Pupils measure items using individual cm cubes (Dienes) Pupils measure length from zero cm using a ruler	-
7 = -9.	Pupils estimate length in cm Pupils estimate length, measure length and record these values in a table	

Place value to 100

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Place value to 100 Number – number and place value Pupils should be taught to: count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number within 10 count, read and write numbers to 100 in numerals; given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least read and write numbers from 1 to 100 in numerals and words.	Light touch of small steps covered in Year 2 unit	Understand a ten and multiple of ten Represent 2-digit numbers using apparatus Represent numbers using dienes Partition and recombine 2-digit numbers 1 more / 1 less (not crossing boundaries) 1 more and 1 less (crossing boundaries) To compare numbers to 100 Order numbers to 100.

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Multiplication and division		
Pupils should be taught to:		Multiplication and division covered in Year 2
 solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. 		

Unitising and coin recognition Unit 9

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Number – number and place value	Pupils count efficiently in groups of two	To count effectively in groups of two.
Pupils should be taught to:	Pupils count efficiently in groups of ten	To count effectively in groups of 5.
 count in multiples of twos, fives and tens 	Pupils count efficiently in group of five	Count efficiently in 2s, 5s and 10s, choosing the most
	Pupils count efficiently by counting in groups of two, five	appropriate unit to count in.
	and ten	
Measurement - Money	Pupils explain the value of a 1p coin in pence	Recognise coins.
Pupils should be taught to:	Pupils recognise and explain the value of 2p, 5p and 10p	
 recognise and know the value of different 	coins	Know value of each coin
denominations of coins and notes	Pupils explain that a single coin can be worth several	
	pennies	To count coins
	Pupils use knowledge of the value of coins to solve	
	problems	To count mixed coins
	Pupils calculate the total value of the coins in a set of 2p	
	coins	
	Pupils calculate the total value of the coins in a set of 5p	
	coins	
	Pupils calculate the total value of the coins in a set of	
	10p coins	
	Pupils compare sets of 2p, 5p and 10p coins	
	Pupils relate what they have learnt to a real-life context	
	Pupils work out how many coins are needed to make a	
	value of 10p	
	Pupils work out how many coins are needed to make a	
	total value of 20p	
	Pupils use knowledge of the value of coins to solve	
	problems	

National Curriculum	NCETM 'suggested steps'	KPI small step progression
 Fractions Pupils should be taught to: recognise, find and name a half as one of two equal parts of an object, shape or quantity 		Finding a half of a shape Finding half of an amount
 recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. 		Quarters covered in Year 2

National Curriculum	NCETM 'suggested steps'	KPI small step progression
 Measurement - Length, mass and capacity Pupils should be taught to: compare, describe and solve practical problems 	Pupils measure one object with different non-standard measures and record outcomes Pupils measure items using individual cm cubes (Dienes)	Compare length and height Measure length using objects Measure length using cm
for: - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] meas (usisht [for example, becay (light	Pupils measure length from zero cm using a ruler Pupils estimate length in cm Pupils estimate length, measure length and record these values in a table	Heavier and lighter Measure Mass Compare mass
 mass/weight [for example, heavy/light, heavier than, lighter than] capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] 	Pupils measure one object with different non-standard measures and record outcomes	Full and empty Compare volume Measure capacity Compare capacity
 measure and begin to record the following: lengths and heights mass/weight capacity and volume 		

National Curriculum	NCETM 'suggested steps'	KPI small step progression
Geometry – position and direction		Describe turns
Pupils should be taught to:		
• describe position, direction and movement,		
including whole, half, quarter and three quarter		
turns.		