

Planning Overview Year 1 Place Value to 10

Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens

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 20 in numerals and words.

1NPV–1 Count within 100, forwards and backwards, starting with any number 1NPV–2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =

1NF–2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.

Please note that Place Value is repeated again to deal with numbers to 20 and then 100. The teaching for mastery documents will be used as guidance of the pitch needed by the end of the year so if numbers are over 10 these will need to be adapted to numbers to 10 in this unit of work.

	Teaching and Learning
Recap	Have a range of resources and numbers ready on the tables to help you
Counting	to check understanding of 1:1 correspondence, cardinality and
from 1–10	conservation of number from EYFS.
and using	What can you tell me about the number on the card you have chosen?
this to	How can you represent this with resources?
accurately	How can you represent this with a drawing?
count sets	Make sure children can count using 1:1 correspondence. Demonstrate
of objects,	moving objects as you count and putting them in a line to avoid double
pictures,	counting.
sounds and	Make sure children understand cardinality (the last number you say
actions	represents the whole set).
	Can children count objects in a picture accurately? Teach strategies
	like crossing out, circling or covering pictures as you count.
	Make sure children understand that rearranging objects (e.g. spreading
	them out to take up more space) will not change the count.
Counting	Use practical equipment e.g. Numicon or multilink to display a number
forwards	sequence. Ask children to show the next item in the sequence using the
and	equipment. How did you know that was the next one? Display the
backwards	numbers underneath the practical equipment.
from	
different	
start	
numbers	5 6 7 8 ?



Are the numbers counting forwards or backwards? What would the number before look like? Can you make it?
Explore a few examples with the children including examples where the numbers go backwards.
Choose a starting number and ask them to count either forwards or backwards moving a counter along the track as they count.
Show children some sequences without the practical equipment (though they can still use this to support them in finding the next number) e.g. 2, 3, 4, _, _, _
Use a counting stick to practise counting forwards and backwards to ten using different starting points.
<u>Key Questions</u> Are the numbers counting forwards or backwards? How do you know? Can you show me? How do you know what the next number is? What would the number before be? Can you make it?
Sit in a circle. Choose a starting number and ask children to count in ones around the circle either forwards or backwards. Who do you think will say the number 7?
Have the numbers, words and visual representations of each number visible to support the children's understanding.
Choose a number card from 1–10. Can they identify the card that comes next when they count forwards? And the next oneand the next one? Choose a different number card. Can they identify the number that comes before it when they count backwards? And the next one? And the next one?
Roll a 1-6 dice. Can you count forward from the number that you have rolled? Can you count backwards?
Complete number sequences such as:
3, 4, 5, 6, _, _, _ 9, 8, 7, 6, _, _, _
Spot mistakes in a number sequence: 4, 5, 6, 7, 9
True or False: I am counting forwards from 6 in ones. Will I say 5? How do you know?
I am going to count backwards from 8 to 0 will I say 9. How many numbers to do I say to get from 8 to 0?







	? is one less than 8 8 is one less than ?
	Mastery Write the missing number in each box. 19 is 1 less than Image: Colspan="2">Adapt numbers to evaluate mastery of numbers to 10 33 is 1 less than Image: Colspan="2">Adapt numbers to evaluate mastery of numbers to 10 54 is 1 less than Image: Colspan="2">To 10 59 is 1 less than Image: Colspan="2">Con children work in a system to find numbers 1 more or less than each number to 10.
	Mastery with Greater Depth Complete: is 1 less than is 1 more than is Sarah thought of a number – one more than her number was 6, what
	was her number?
Comparing amounts and using associated	Key language – for countable nouns compare using more than, fewer than, the most, the fewest, the same number – for uncountable nouns (e.g. money or juice) use more than, less than, the most, the least, the same amount
vocab	Show the children 2 sets of objects. Which set has more/fewer? How do you know? Can you explain to a partner/prove it? Look at importance of pairing up objects (one from each set) until one set has none left. A number track or 5 frames can be useful for this. Look for children who are subitising and then comparing numbers because they know which number is bigger. Can they reason 'I know that set has more because that set has 5 and that set has 3 and I say 5 after 3 when I count so it is bigger'.
	Introduce three sets of objects. Which set has the most? The fewest? Can they explain how they know? Include situations where some sets have the same number of objects.
	Include sets where each set contains a different type of object and sometimes there are more of the smaller objects to distinguish between size and quantity.
	Fluency based questions using objects to represent numbers e.g. make a set with fewer than/more than 4 cubes



	Mastavu
	Compare amounts.
	What's the same? What's different?
	One has 9 beads and the other has 6 beads.
	9 is 3 more than 6.
	6 is 3 less than 9.
	Do they know that 9 is more than 6? Knowing how many more will start
	to be addressed in addition and subtraction.
Comparing	Key language – greater than, less than, equal to, greatest, least
numbers	Leal at two works we Which are is mented?
and using	Look at two numbers. Which one is greater?
associated	How do you know? Can you prove it? Children could use objects again
vocab and	to reason here or make links to the relative positions on a number line or
symbols < >	the counting sequence. "I know that 8 is greater than 3 because when I
and =	count to 8 I have to count past 3."
	Can children use a pan balance with numicon or multilink to show
	greater than and less than? Use words to compare two numbers
	moving on to symbols if appropriate.
	Mayo an ta agree suing 2 ay mayo ny malagya and introduce the
	Move on to comparing 3 or more numbers and introduce the
	mathematical terms greatest, least
	I'm giving each of you a strip of cara with some numbers on [five
	numbers at random from 0 to 10].
	Deint to the number which is worth most New point to the number
	Point to the number which is worth most. Now point to the number
	which is worth least.
	There is a let of upusual vecab in comparison. To get children to use it
	rather than just understand it give children cards with these new years
	words on and opcourage them to choose one and then say a septence
	about sets of chiects and/or numerals using the word on their
	card E g. The dog has more apples than the hird. The cat has the fewest
	apples 5 is less than 7
	Only introduce $\langle \rangle = as a shorthand when you think the children are$
	confident with the vocabulary and concents – this could be in a later
Ordering	Make these 5 numbers with equipment and put them in order. Why have
numbers	you put this number there?
including	
use of	Mastery assessments – adapt to numbers in range 0–10
ordinal	Mastari
numbers –	Write the numbers in order of size.
first	15 16 5 71 50
11130,	



secona,	Discuss ordinal language – this should be reinforced through daily
third	activities.
	Logic problems Year 1 Lesson 1 Resource sheet 2a
	 Children to complete logic problem activity and then create a sequence of characters that they describe to their partner – can their partner create the same sequence of characters using clues such as first in the line. Little Reflicing Hoad is last in the queue. Buy Gear is in the niddle of the queue.
	Greater Depth
	If Sam places these 5 numbers in order, starting with the smallest number, which
	1 number will be in fourth position? 46 64 24 42 50
Number lines	Number tracks and number lines will have been used throughout this
ana	unit of work alongside practical resources such as numicon.
consolidation	Give the children a number line $\Omega - 10$ stuck into their book. What can
	you tell me or show me with this number line? Can they show the
	biggest/smallest number? Can they represent some of the numbers
	from the number line? Can they create a greater than or less than
	statement?
	statement
	Give them a marked number line with just 0 and 10 labelled at each end like the one below. Can you place your 2 favourite numbers on this number line? Which strategy did you use to work out where to position your number? Was it the same each time? Make sure children use counting on from 0 and back from 10 but also counting on and back from a previously positioned number or the midpoint 5. Children could position pairs of numbers on number lines articulating and/or recording which strategies they use each time to develop their reasoning. Give them a blank unmarked number line with just 0 and 10 labelled. Can you estimate where your favourite numbers would go on this number line? Which number would be right in the middle? How could this information help you? Make sure children think carefully about the positioning of numbers like 2 and 3. Will they be nearer to 0 or 5? How many numbers are missing between 0 and 2? Between 2 and 5? Position pairs of numbers as above explaining strategies.