





Progression in Subtraction National Curriculum 2014

	What will subtraction look like?	Notes
		The guidance in italics is taken from the non- statutory guidance in the National Curriculum in England document for 2014
EYFS	Teacher modelling, pictorial representation Practical demonstrations of subtraction relating to 'take away'. E.g. 10 – 1?	
	Vocabulary of subtraction in practical activities	
	Find one less than a number by counting back. Using numbers on a washing line or jumping back on a number track 0 1 2 3 4 5 6 7 8 9 10	
	Relate subtraction to finding how many are left when some are removed. I have 6 sweets. I eat 2. How many are left?	
	ALLY ALLY ANY	
	Relate subtraction to finding the difference in practical contexts	
	Using Numicon as a practical resource.	
	Record practical calculations by drawing pictorial representations.	
	8 8 8 8-2=6	
	3999	
	Begin to use - and = signs to record calculations	
Y1	Number tracks leading to number lines introduced for recording 'jumps' back.	Pupils memorise and reason with number bonds to 10 and 20 in several forms (e.g. 9 + 7 = 16; 16 - 7 = 9; 7 = 16 - 9). They should realise the effect of adding or subtracting zero. This establishes addition and subtraction as related operations. Pupils combine and increase numbers, counting forwards and backwards.
	(Counting Back underneath and counting forwards on the top)	
	1 2 3 4 5 6 7 8 Can you count back 5? Take away 5	
	Difference introduced practically and then on number tracks and lines, e.g. $12 - 7$ (Counting Forwards)	
	Can you make a rod 12 blocks long? My block is 7 blocks long. What's the difference?	They discuss and solve problems in familiar practical contexts, including using quantities.
	difference 0 1 2 3 4 5 6 7 ◀	Problems should include the terms put together, add, altogether, total, take away, distance between, more than and less than, so that pupils develop the concept of addition and

	0 1 2 3 4 5 6 7 8 9 10 11 12	subtraction and are enabled to use these operations flexibly.
	Number lines to take away units	
	31 - 5 =	
	24 25 26 27 28 29 30 31 32 33	
	Find the difference between 26 and 35	
	31-5=	
	24 25 26 27 28 29 30 31 32 33	
	Complementary addition	
	31-5= 26+5=	
	Use dienes to practically solve larger	
	problems	
	le 57 - 34	
	I Pupils use concrete apparatus to experience take away and difference	
	Count out 16 straws. If you give your friend 7, how many will you have	
	<i>left?</i> Pupils practice finding the difference by counting on using a number	Pupils extend their understanding of the
Y2	line. They are able to choose when to take away and when to find the difference when answering a subtraction problem.	language of addition and subtraction to include sum and difference
		Pupils practise addition and subtraction to 20 to become increasingly fluent in deriving facts such
	0 27 difference	as using 3 + 7 = 10, 10 - 7 = 3 and 7 = 10 - 3 to calculate 30 + 70 = 100, 100 - 70 = 30 and 70 =
		100 - 30. They check their calculations, including by adding to check subtraction and
	0 00	adding numbers in a different order to check
		This establishes commutativity and associativity
	+3 +20 +5 so 55 - 27 = 28	of addition. Recording addition and subtraction in columns
	27 30 50 55	supports place value and prepares for formal written methods with larger numbers.
	55 - 27 = 28 27 + ? = 55 55 - ? = 27 ? + 26 = 55	
	(b) Pupils use concrete apparatus to explore exchange in practical	
	activities. E.g. Subtract 18p from 33p	
	(c) Pupils begin to organise their subtractions using	
	67 - 54 $80 7$ $-50 4$	
	<u>30 3</u>	

Y3	(a) $81-57 = \text{ difference} +3 +20 +1 =24$ (b) $81-57 = \text{ take away}$ $81 = 80 \ 1 \text{ "1 take away 7 is tricky} = \frac{70}{80} \frac{11}{3}$ $\frac{-57}{20} \frac{-50}{7} = \frac{7}{20} \frac{7}{4} = 24$	Pupils practise solving varied addition and subtraction questions. For mental calculations with two-digit numbers, the answers could exceed 100. Pupils use their understanding of place value and partitioning, and practise using columnar addition and subtraction with increasingly large numbers up to three digits to become fluent
	Bunile programs to subtract numbers with up to 2 digits	
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	** Moving onto columnar subtraction (as below) once children are secure and demonstrate good understanding of place value.	
Y4	(a) Pupils continue to calculate difference mentally using a number line (b) Pupils progress to using the compact columnar method for subtraction. 784 = 700 80 4 adjust from T to O $784-56$ -50 6 -56 $-$	Pupils continue to practise both mental methods and columnar spacing for addition and subtraction with increasingly large numbers to aid fluency.
	Progressing to 4 digit numbers 600 100 2754 $= 2000$ 700 50 4 -1562 1000 500 60 1562 1192 1000 90 2	
	Pupils use the column method to solve increasingly more complex calculations involving many exchanges, and solve subtractions with at least 4 digits 51316 6467 - <u>2684</u> 3783	Pupils practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency. They practise mental calculations with increasingly large numbers to aid fluency
	Pupils to use the 'Shop Keepers Method' to find the difference when using decimal (£ and p). £10.00 - $\frac{£06.75}{5p}$ (£06.80) 20p (£07.00) £3.00 (£10.00) Change = £3.25	