



## Calculation Policy Subtraction September 2023





## Subtraction:

EYFS:			
Vocabulary:	First Then Now Take away Minus Subtract Part Whole	Manipulatives & scaffolds:	Five and ten frames Fingers Numicon Interlocking cubes Double sided counters Part-whole model
Small step:	Concrete:	Pictorial:	Abstract:
Take away	Use real objects (numicon, ten frames & counters) to explore the concept that the quantity of a group can be changed by taking away.	Use stories alongside images to provide meaningful context.	There are four cakes in the shop, three cakes are eaten. How many are left? 4 - 3 = ?
How many did I take away?	To follow March 24		
Y1			





Vocabulary:	First, Then, Now, Take away, Minus, Subtract,	Manipulatives & scaffolds:	Double sided counters
	Part, Whole, Less, Fewer, Difference between		Ten frames
			Part-whole model Dienes
			Bar model

Small step: Concrete:	Pictorial:	Abstract:
Find a partI have 5 counters altogether. I have 2 in one hand, how many are in the other hand?Image: Description of the second se	9+ = =+ 5 is a part, is a part and 9 is the whole.	There are 9 children on a train. 5 children get off the train. How many are left?





Subtraction – find a part (Introducing the subtraction symbol)	There are 8 counters in total in the bag. How many counters are in the bag? 8-5=3	How many ice creams do not have flakes? There are ice creams that do not have flakes. 6 =	=
Fact families – the 8 facts		There are 6 apples. 5 of them are red and 1 is green. Write the fact family to show this.	10 9

		+=6	
3 + 5 = 8	8 = 3 + 5	+ _ = 6 6 = _ +	+=+
5 + 3 = 8	8 = 5 + 3	6 = = 6	+==+
8 - 5 = 3	3 = 8 - 5	6 = = 6	=
8-3=5	5 = 8 - 3		= = = = =





Subtraction – take away/cross out (How many left?)	First there were 6 bears. Then 3 of the bears were taken away. Now there are 3 bears.	There are 7 birds in a tree. 3 birds fly away. Complete the sentences. First there were birds in the tree. Then of the birds flew away. Now there are birds in the tree.	Tell/write a 'first, then, now' story to describe what is happening in the picture. Draw a part-whole model for your story.
Subtraction – take away (How many left?)	First there were 6 bears. Then 3 of the bears were taken away. Now there are 3 bears. $6$ -3 = 3	First there were 8 cakes. Then 5 of the cakes were eaten. How many cakes are left? Complete the part-whole model and the subtraction sentence.	9 5 9-5=4







Subtract ones using number bonds	18 - 3 =	17-4 =	19 - 3
Subtraction – counting back	First there were counters Then were taken away Now there are counters	<b>20 - 7 =</b> 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	19 = 8 =
Subtraction – find the difference		Ann has 13 marbles. Tom has 5 marbles.	There are 11 pink pens and 7 green pens in a pot. How many more pink pens are there than green pens?
	There are more red counters.	5	
	*focus on how many more there are	How many more marbles does Ann have than Tom?	

Y2			
Vocabulary:	First, Then, Now, Take away, Minus, Subtract,	Manipulatives & scaffolds:	Double sided counters
	Part, Whole, Less, Fewer, Difference between,		Ten frames
	tens boundary, cross ten		Part-whole model
			Dienes
			Number lines
			Bar model





Small step:	Concrete:	Pictorial:	Abstract:
Fact families			====_=
-			===_=_=
subtraction			
bonds	18 - 18		
within 20			
Subtract			
ones			10 – 3 =
		*********	20. 6
			20-6=
	10 – 3 = 7		
		20 – 6 = 14	
Subtract		-4 -1	
across a ten		11 - (5) = 6	15 – 7 =
	Lucada cuburat to act to 10	I need to subtract to get to 10	
	I need to subtract to get to 10	I need to subtract more	
	loss than is	less than is	

Subtract	Build 20 in tens frames:	Here is a number line.	
from a ten			50 – 7 =
(using		70 71 72 73 74 75 76 77 78 79 80	90 – 9 =
knowledge		Use the number line to work out the subtractions.	70 – 8 =
of number	Use the ten frames to work out the subtractions.		
bonds)	20 - 4 20 - 7 20 - 2	80-4 80-7 80-2	
	20 - 1 20 - 5 20 - 3	80 - 1 80 - 5 80 - 3	





Subtract a 1-digit number from a 2digit number		Build 53 Explore why one ten is nade up on ten ones	Draw 53 Cross out 8 to subtract	34 - 7 = 42 - 6 = 23 - 5 =
(across a 10)	53 – 8 = 45	Subtract 8	53 - 8 =	
10 less	Build 35 Subtract 10 35 – 10 = 25		I       2       3       4       5       6       7       8       9       10         II       I2       I3       I4       15       I6       17       18       19       20         2I       22       23       24       25       26       27       28       29       30         3I       32       33       34       35       36       37       38       39       40         4I       42       43       44       45       46       47       48       49       50         5I       52       53       54       55       56       57       58       59       60       35 - 10 =	35 – 10 =





Subtract 10s		53 - 20 = 53 - 40 = 53 - 50 =	76 - 30 = 76 - 50 = 76 - 70 =
	36 - 20 =	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Subtract two 2-digit numbers (not crossing a 10)	76 - 24 =	76 - 24 = $76 - 24 =$ How many ones do you need to subtract? How many tens do you need to subtract? What is the difference between 74 and 21?	Work out the difference between these numbers: 56 and 21 39 and 34 97 and 47





Subtract two 2-digit numbers (across a 10)	45 – 29 - 1.Make 49	45 – 29 = 1.Make 45 2.Exchange one ten for ten ones 3. Now subtract 2 tens and 9 ones	Work out the difference between 75 and 28
	TensOres for ten ones2.Exchange one ten for ten onesImage: Second		
Y3			
Vocabulary:	First, Then, Now, Take away, Minus, Subtract, Part, Whole, Less, Fewer, Difference between, Tens boundary, hundreds boundary, Cross ten, cross hundred, Exchange	Manipulatives & scaffolds:	Double sided counters Ten frames Part-whole model Dienes Bar model Number lines Place value charts Place value counters





Small step:	Concrete:	Pictorial:	Abstract:
Subtract 1s	243 – 2 =	243 – 2 = Hundreds Tens Ones	534 – 2 =







Subtract 100s	461 – 200 =	Hundreds       Tens       Ones         Image:	461 – 300 =
Subtract 1s across a 10	253 – 8 =	253 – 8 = *Explore why one ten is made up on ten ones	171 – 6 =





		244 – 7 =	
		- 3 - 4 237 240 244	
		I need to subtract to get to the previous multiple	
		Then I need to subtract more	
Subtract	323 - 40 =	323 – 40 =	
10s across a 100			322 – 50 =
		*Explore why one hundred is made up ten tens	
		920 - 50 =	
	*Explore why one hundred is made up ten tens		
		I need to subtract to get to the previous multiple	
		of hundred	
		Then Theed to subtract more	











Subtract two numbers (across a hundred)	435 – 273 =		Hundreds Tens One	<sup>34</sup> 435 - 273 162	5 3 	5	
	Make 435	Exchange 1 100 for 10 10s					
	Subtract 273						

Subtract 2-			2 9 1
			- 2 8
Y4			
Vocabulary:	First, Then, Now, Take away, Minus, Subtract,	Manipulatives & scaffolds:	Double sided counters
	Part, Whole, Less, Fewer, Difference between,		Ten frames
	Tens boundary, hundreds boundary, cross ten,		Dienes
	cross hundred, exchange, thousands,		Place value charts
	decimals, decimal place, tenths		Place value counters
Small step:	Concrete:	Pictorial:	Abstract:





Subtract two 4-digit numbers – no exchange		4, 3 9 2 1, 1 8 2	Th       H       T       O         C       C       C       C       C       Th       H       T       O         C </th <th>1) 5, 5 8 6 - 2, 1 7 2</th>	1) 5, 5 8 6 - 2, 1 7 2
Subtract two 4-digit numbers – one exchange	4357 – 2735 =	Make 4357	Thousands       Hundreds       Tens       Ones         Image: Comparison of the state of t	$   \begin{array}{r} 3 \\ 4357 \\ - 2735 \\ \hline 1622 \end{array} $

Exchange one thousand for 10 100s	
Subtract 2735	





Subtract two 4-digit numbers – more than one exchange	4357 - 3584 = $Make 4257$ $Make 4257$ $Exchange 1 1000 for$ $10$ $100s$ And 1 100 for 10 10s $Carry out the subtraction$	Th       H       T       O         Image: Construction of the state of the st	3       1       2       5         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       2       4       1       7         -       -       2       4       1       7
Y5	,		
Vocabulary:	First, Then, Now, Take away, Minus, Subtract, Part, Whole, Less, Fewer, Difference between, Tens boundary, hundreds boundary, cross ten, cross hundred, exchange, thousands, decimals, decimal place, tenths	Manipulatives & scaffolds:	Dienes Place value charts Place value counters

Small step:	Concrete:	Pictorial:	Abstract:





Subtract whole numbers with more than 4 digits	When children begin to subtract larger numbers, written methods become more efficient; methods are less effective and take too much time	Tth     Th     H     T     O       Image: Constraint of the state of the	The population of Hereford is 63,689 The population of Chester is 87,593 Find the difference between the population of Hereford and the population of Chester.
Subtract decimals across 1	When subtracting decimals, encourage children to subtract to get to 1 first, then subtract the remaining decimal. Tens frames may help pupils to see how to do this. 1.3 - 0.7 = I subtract 0.3 to get to one. I can then subtract 0.4 from one.	1.3 - 0.7 = 1.3 - 0.7 = 1.3 - 0.3 = 1 1 - 0.4 = I subtract to get to one. I can then subtract from one.	1.3 – 0.8 =
Subtract decimals with the same number of decimal places	6.35 – 4.83 = Make 6.35	Ones       Tenths       Hundredths         Image: Construction of the state of the sta	





	Carry out the subtraction		
Subtract decimals with a different number of decimal places	4.54 - 1.4 =	O       Tth       Hth         Image: Constraint of the state	4 + 7       5         - 3 + 1       2         - 3       -         - 3       -         - 3       -         - 3       -         - 3       -         - 3       -         - 3       -         - 3       -         - 3       -         - 1       -         - 2       0         - 3       -         - 4       -         - 5       -         - 4       -         - 5       -         - 6       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -         - 7       -
Y6			
Vocabulary:	First, Then, Now, Take away, Minus, Subtract,	Manipulatives & scaffolds:	Dienes
	Part, Whole, Less, Fewer, Difference between,		Place value charts
	Tens boundary, hundreds boundary, cross ten,		Place value counters
	cross hundred, exchange, thousands,		
	decimais, decimai place, tenths, integers		
Small step:	Concrete:	Pictorial:	Abstract:
Subtract			
integers			3 4 6 0 8
			1 2 7 2 7
			- 1 2 7 2 7



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			4       7       6       1       3       2       5         -       9       3       8       0       5       2
Subtract decimals	O         Tth         Hth         Thth           Image: Constraint of the state of th	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4       3         -       2       .       7       0         2       .       7       3

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