Subtraction Calculation Policy				
	Early Years			
Vocab for Subtra	Vocab for Subtraction: Takeaway, less, equals, how many left, backwards			
	Steps in learning for Subtraction	Explanatory note		
Using	1. I know when to take away	1. When pouring water or counting objects, say shall we take		
quantities and	See that there are a group of objects.	some away and the child understands that there is now a smaller amount than before		
subtract two	See that there is less when taken away			
single digit	see that there is less when taken away.			
numbers and	2. I know how many are left			
count back to	Have a group of objects	2. When playing it is knowing how many left is the number of		
find the	Remember to take the objects away	objects that remain after some have been removed.		
answer.	Find out how many are left by counting	,		
Link to New	3. I can take away the right amount and count how many are left			
ELG 2021: To	(Oral)	3. Children need to be able to count to 10 with 1 to 1		
automatically	Orally say the number sentence 3-2	correspondence. They should count the amount of objects to		
recall number	Count out/set out how many objects you need- first number.	start, take away the right amount then count how many are		
bonds to 5 and	See how many need taking away- second number	left.		
some number	Remove/ takeaway the second amount			
bonds to ten	Check you have taken away the right amount.			
	Count how many remaining to find the answer			
	4. I can read a subtraction number sentence			
	Read the number sentence	4. Children should be taught the terms takeaway and equals and		
	Say takeaway for (-)	be able to read number sentences on flashcards.		
	Say equals (=)			
	5. I can arrange a number sentence (This step can be linked straight			
	away with step 6 if needed)	5. Children should use cubes or play objects to make the number		
	Read the number sentence	sentence. Adults need to check they have removed the correct		
	Set out the number of objects to start with	amount from the starting amount.		
	Say how many need to be taken away			
	Remove the correct number of objects			
	6 Lean colue a subtraction number contance			
	o. I can solve a subtraction number sentence			

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	Read the number sentence		
	Set out the number of objects to start with		
	Say how many need to be taken away		
	Take the objects away		
	Count how many are left		
	7 Lean colve subtraction contances on a number line		
	7. I can solve subtraction sentences on a number line.	7 Lice pro numbered Num	aborlinos
	Count back the right amount	7. Ose pre numbered Num	iber intes
	Count back the light anount		
	Circle the answer	3 2 1	O taka away 2 aguala 6
			9 lake away 3 equais 6
	Follow V1 expectations for subtraction using number lines (9876
	Follow Y1 expectations for subtraction using number lines (
	1d putting the larger number in your head and counting head		
	To putting the larger number in your nead and counting bac	K.	
	Yea	r 1	1
	Concrete and practical resources	Pictorial / Jottings	Abstract
Find 1 less	Use physical objects, counters/cubes. Children takeaway one	Use a number line or stick to find one less	Link to counting backwards from
than a number	object from a group to find one less.		100, children to be able mentally
		less	find one less by saying the
			number before in the count up to
		6 7 8 9 10	100
			0 7 19 1 - 17
		Using a hundred square to find one less	e.g. 18 - 1 = 17
		Finding a Hundred Square	45 - 1 = 44
		To find 1 more 1 2 3 4 5 6 7 8 4 30	
		move check 1 square. 27 22 21 24 25 26 27 20 29 30 To find 1 less 21 22 21 24 35 26 27 20 29 30	79 - 1 = 78
		move back 1 square. 41 42 43 44 9 49 47 43 41 50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1 12 12 13 14 15 14 77 12 77 74 77 19 19 19 19 19 19 19 19 19 19 19 19 19	
1			
		Link orally counting on back ones to finding	
		Link orally counting on back ones to finding one less	
		Link orally counting on back ones to finding one less Link to one less being the number before in	
		Link orally counting on back ones to finding one less Link to one less being the number before in the count	

Subtract two 1 digit numbers to 10 e.g. 7 – 3 = 4	Use practical resources such as cubes, counters and beads (refer back if needed to EY steps when subtracting 1d - 1d numbers) Children physically takeaway the objects from the whole. 7-3 =	<u>Pictorial</u> Cross out drawn objects to show what has been taken away and count how many are left.	<u>Counting back mentally</u> Putting larger number in your head in and counting back, on fingers. e.g.
Linked to read, write and interpret mathematical statements involving subtraction - and equals =	Physically count out 7 objects/counters. Children must have accurate 1:1 correspondence for this.	 ジェンズ 5 - 3 = 今 子 子 子 子 子 子 子 子 子 子 子 子 子 子 子 子 子 子 子	Countins BACk Start with the tager hunder in your head and court backward using your fingers. 10-3-7 Start with 10 in your head
	many are left to find the answer	Jottings Draw dots / circles to represent objects then cross out the amount to be taken away.	 Put largest number in your head Hold up the number of fingers to be taken away/ subtracted Count back on each finger
	5-3=	<u>Number lines/Tracks</u> Begin to introduce counting back using visuals of a number line. Start at the bigger number and count back the smaller number, showing the jumps on the number line. e.g. 9 - 3 = 6 $\overrightarrow{0}$ $\overrightarrow{1}$ $\overrightarrow{2}$ $\overrightarrow{3}$ $\overrightarrow{4}$ $\overrightarrow{5}$ $\overrightarrow{6}$ $\overrightarrow{7}$ $\overrightarrow{8}$ $\overrightarrow{9}$ $\overrightarrow{10}$	
		e.g. 10 – 4 = 6	

Subtract 1 and 2 digit numbers to 20, including	Use counters or objects to represent the number and physically remove the objects (as above)	<u>Pictorial</u> Children to cross out drawn objects and count how many are left.	<u>Counting back mentally</u> Putting the larger number in your head and counting back, on fingers (See above)
zero e.g 14-6=		XXXXXXX	Countins BACk Gart with the bager rundber in your head and count backward using your friegers. 10-3-7 Start with 10 in your head
		$18 - 8 =$ $\frac{18 - 8}{12000000000000000000000000000000000000$	 Put largest number in your head Hold up the number of fingers to be taken away/ subtracted Count back for each finger
Develop fluency in - facts within 10	Use numicon to explore number bonds to 10 and link to subtraction facts	Pictorial Use pictorial representations to work out subtraction facts	<u>Mental recall</u> Use knowledge of addition facts to 10 and fact families

	10 - 1 = 9 10 - 2 = 8	10 - 4 = 6 10 - 6 = 4	* = + = + = - = - = - = Link to Learn its and switcher
			racts e.g. / + 3 = 10 switcher 10 - 3 = 7
	Year	r 2	
	Concrete and practical resources	Pictorial / Jottings	Abstract
Recall and use subtraction facts to 20	Use numicon to find bonds to 20. Link addition facts to subtraction facts 10 + 10 = 20 20 - 10 = 10 $19 + 1 = 20 20 - 1 = 19$ $18 + 2 = 20 20 - 2 = 18$	Look at the pictorial representation and write the related subtraction facts/number sentence 20 - 13 = 7 20 - 7 = 13	Fact families 20 4 4 16 e.g. if $16 + 4 = 20$ then $20 - 4 = 16$ and $20 - 16 = 4$
Subtract 1d and 2d numbers to 100 e.g. 39 - 5 = 34	Use base ten to practically subtract 2d and 1d numbers to 100. Represent the number using base ten then remove the amount that needs taking away, counting how many are left. e.g. $36 - 4 = 32$	Number lines Find the starting number and count back the smaller number showing the number of jumps on the number line. 15 16 17 18 19 20 21 22 23 24 25 25 - 7 = 18	<u>Counting back mentally</u> Putting larger number in your head and counting back, on fingers as Y1 but with starting numbers above 20.

			Counting BACk Intervention of the source of
Compare objects and amounts to find the difference	Compare amounts using objects, placing side by side to see the difference e.g. What is the difference between 8 and 5? e.g How many more is 7 than 5? What is the difference between 7 and 5? 7 - 5 = 2	Children to draw the cubes or other concrete items that they have used using circles e.g. What is the difference between 8 and 5?	Use counting on in head to answer questions such as: Hannah has 8 goldfish. Helen has 3 goldfish. What is the difference in the number of goldfish the girls have? Mike has 9 cars and Sam has 4 cars. How many more cars has Mike than Sam?
Use number bonds to 10 to derive related	Use base ten to represent the number and remove the correct amount of tens e.g. 100 - 40 =	Use pictorial jotting of base ten using lines to represent tens. e.g. 100 – 30 = 70	Use recall of number bonds to 10 to answer questions such as 100 – 30 =

facts to 100	Count out 10 tens and takeaway/ remove 4 sticks of ten. Count		100 =
e.g. 100 – 30 =	how many are left.		
			Use known facts and number bonds e.g. 10 - 6 = 4 so 100 – 60 = 40
Subtract a	Use base ten materials. Start by subtracting one ten first then	Jottings	Mentally subtracting multiples of
multiple of ten	extend to multiples of ten. Children must be able to count	Use lines to represent tens and cross out the	ten by counting back in tens and
from a	multiples of ten Y1	amount taken away.	looking at place value change in
multiple of ten			tens digit
e.g. 60 - 20 =	o a 60 - 20 -	e.g. 50 - 20 = 30	o g EQ 10 - 40
	e.g. 00 – 20 – Count out 6 sticks of ten and remove 2, counting how many are		50 - 20 = 30
Linked to	left		50 - 30 = 20
counting in			
multiples of			Use known bonds/ learn its/ What
ten (Y1)			else do l know facts
		Lots of work around the hundred square can	X
		one ten from any given number and looking	4 3
		at the patterns/digit changes when adding	7 – 4 = 3
		ten. (Link to counting back in multiples of	70 - 30 = 40
		ten)	
Subtract ten	Use base ten materials e.g. 76 - 10 =	Jottings using lines for base ten tens and	Mentally counting back ten/
from a two	Children to represent the first number using base ten.	circles for ones. Crossing out the ten to be	finding ten less (Link to counting
e.g. 76 - 10 =	Children to physically remove the ten and count now much is left.	e.g. 32 - 10 =	number)
			,
		•	Use place value to manipulate
Linked to			digits
counting back	8988888		
tens from any	\$\$\$\$\$\$		67 - 10 - 57
			57 - 10 = 47

less than a number		Lots of work around the hundred square can support this understanding. Use to find ten less than a number and looking at the patterns/digit changes when subtracting ten.	47 - 10 = 37
Subtract a two digit number and multiple of ten e.g. 76 - 20 = Linked to counting back tens from any number	Use base ten materials e.g. 76 - 20 = Children to represent the first number using base ten. Children to physically remove the tens and count how much is left.	Jottings using lines for base ten tens and circles for ones. Crossing out the tens to be taken away. e.g. 32 - 20 = Lots of work around the hundred square can support this understanding. Use to count back in tens from any given number and looking at the patterns/digit changes when subtracting ten.	Mentally counting back in multiples of ten on fingers (Link to counting back in tens orally from any 2d number) Use place value to manipulate digits 67 - 10 = 57 67 - 20 = 47 67 - 30 = 37
Subtract 2 two-digit numbers e.g. 38 – 24 =	Use base ten to subtract TO + TO <u>No exchange</u> . Use place value grid to support understanding of Tens and Ones	Children represent the base ten using lines and dots. e.g. 44 - 13 =	Children use formal column written method to subtract numbers (no exchange)



written methods With exchange Formal written method	Tens Ones	10s 1s HAQ . ::::::::::::::::::::::::::::::::::::	⁶ 7 ¹ 5 - 37 <u>38</u>
	Year 3		
Overarching obje	ective: Solve subtraction problems using number facts and place value a	and more complex subtraction problems – S	ee strategies below
Subtract mentally 3 digit numbers and 1's e.g. 478 – 6 = 627 – 5 =	Link to oral counting forwards in ones starting from any 3 digit number. Link to Y2 strategy mentally counting back in head but from <u>3 digit numbers.</u> Also link to place value of ones. Start with the bigger number in your head and count back.		
Find 10 less than a given number mentally e.g. 647 – 10 = 923 – 10 =	Link to counting back in tens from any three digit number. Link to place Answer questions such as: 578 – 10 = 432 – 10 = 609 – 10 =	e value and the manipulation of numbers/ cha	anges in digits.
Subtract mentally 3 digit numbers and 10s e.g.	Linking to place value of digits, some crossing barriers. Answer questions such as: 645 – 20 = 538 – 40 =		

265 – 20 =	789 – 50 =	
497 – 30 =		
586 – 50 =		
Find 100 less	Link to oral counting in 100s from any 3 digit number.	
than a given	Answer questions such as:	
number		
mentally	348 – 100 =	
e.g.	725 – 100 =	
462 – 100 =	967 – 100 =	
934 – 100 =		
Subtract	Link to oral counting in 100s from any 3 digit number and place value of digits.	
mentally 3	Answer questions such as:	
digit numbers		
and 100s	478 – 200 =	
e.g.	699 – 400 =	
823 – 200 =	623 – 500 =	
541 – 400 =		
To recall	Using subtraction facts to 100.	
subtraction	If they know:	
facts to 100.		
Relate to	37 + 63 = 100 then 100 - 63 = 37 and 100 - 37 = 63	
subtraction	25 + 75 = 100 then 100 – 25 = 75 and 100 – 75 = 25	
facts to 100.		
e.g.		
45 + 55 = 100		
100 - 55 = 45		
Apply place-	Use scaling facts by 10 to answer questions such as:	
value		
knowledge	9 - 5 = 4	
(scaling facts	90 - 50 = 40	
by 10)	900 - 500 = 400	
Subtract up to	Use base ten/ Place value counters to subtract HTO - TO and HTO - HTO. Children will use formal column subtraction	
two 3 digit		
numbers using	435 – 273 = 162	
formal		
	5 ones – 3 ones	

columnar method.	3 tens – 7 tens can't do it so exchange a hundred for 10 tens. 3 hundreds – 2 hundreds.	нт U 6 11 1
e.g.		793
789 - 264 = 459 - 346 =	Hundreds Tens Ones	
Formal Written method Complete without exchange first		- <u>356</u> <u>367</u>
	Year 4	
Find 1000 less than a number	Link to counting backwards in 1000s. 4597 – 1000 = 7954 – 1000 =	
Round and Adjust	MS3: Round & Adjust	
E.g.	84 - 29 = 55	
- 9 -19	84 - 30 + 1	
-99		
-133	54 + 1 = 55	
Subtract	Use base 10 or place value counters	Formal method of column subtraction
up to 4 digits		
using formal written		
method of		
column		
e.g.		

1378 + 2148 = 3526 Formal Written method.	$4,357 - 2,735 = 1,622$ Thousands Hundreds Tens Ones $\frac{1}{200000000000000000000000000000000000$
Solve simple money and measure problems involving decimals to two decimal places.	Use the formal column method to subtract decimals in the context of measures and money $ \begin{array}{c} $
	Year 5
Subtract increasi	ngly larger numbers mentally
Subtract 10,100 and 1000 from any number up to 6 digits.	(Numbers up to 6 digits) Use Place value and number decomposition. Display numbers and look at patterns and changes when subtracting 10, 100 etc. Pay particular attention to boundaries. 413,629 – 100 = 523, 987 – 1000 = 205,487 – 1000 =
Subtract 10,000 and 100,000 from any number up to 6 digits.	Numbers up to 6 digits. 593, 624 – 10,000 = 730,154 – 100,000 =

Subtract any multiple of 10,	Numbers up to 6 digits.	
100 and 1000 from any	625,487 – 20 =	
number up to 6 digits	268,102 – 300 =	
	569,874 – 2,000 =	
Subtract any multiple of	Numbers up to 6 digits.	
10,000 and 100, 000 from	654,326 - 30,000 =	
any number up to 6 digits	948 , 625 – 400,000 =	
Round and adjust	MS3: Round & Adjust	
Subtract a near multiple of	84 - <u>29</u> = 55	
digit number	84 - 30 + 1	
	54 + 1 = 55	
	456, 789 – 1999 = 456, 789 – 2000 = 454, 789 454, 789 + 1 = 454, 790	
Subtract more than 4 digits (5. once secure	Use place value charts and place value counters	Most children should by now be working more in abstract and using column method to subtract efficiently Use formal column method to subtract 5/6 digit numbers.
move to 6 digit numbers)	294,382 - 182,501 = 111,881	
		294,382 - 182,501 = 111,881



calculations, including with mixed operations and large numbers	B O D	Brackets Order Division	$10 \times (4 + 2) = 10 \times 6 = 6$ $5 + 2^2 = 5 + 4 = 9$ 10 + 6 + 2 = 10 + 3 = 13 10 - 6 - 2 = 10 - 2 = 2	
	AS	Addition Subtraction	$10 - 4 \times 2 = 10 - 8 = 2$ $10 \times 4 + 7 = 40 + 7 = 47$ $10 + 2 - 3 = 5 - 3 = 2$	
Use efficient methods to Subtract 6 digit numbers	For example: 49[°]7¹2[°]6 ¹ 4			
Formal written method Linked to solve	-	<u>32481</u>	<u>9</u>	
problems Subtraction multi-step problems in context	-	17244	5	
Examples from SATs arithmetic	7,064 ? - 1 ? = 5 10 - 6 - 5	4 – 500 = multiples o 0 = 298 multiples of ,776 – 855 formal co 5.4 = decimals – plac .738 = decimals – plac	of 100 10 - opposite bloumn ce value ace value	