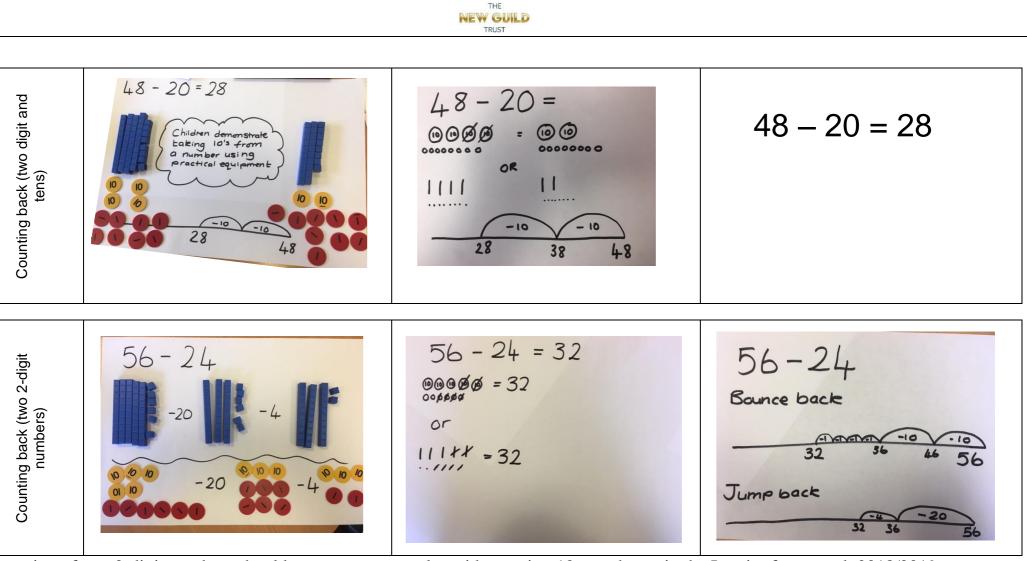


	Year 1		C	alculatin	g strand: SUBTRA	CTION
		Vocabulary				Key Questions
Subtraction, subtract, take away, distance between, difference between than, minus, less than, equals = same as, most, least, pattern, odd, even,				How many more to make? How many more is? How much more is? How many are left/left over? How many have gone? One less, two less, ten less How many fewer is than? How much less is? What can you see here? Is this true or false?		
				<u>Example (</u>	Questions	
Basic				Adva	ancing	Deep
Illustrate the problem Identify Name the number bonds Modify			Identify patterns Modify the numb	entify patterns in the number sentencesInodify the numbers to change the answersuganise the numbers into a number sentence.ExCrCr		Prove how you know the answer is Investigate how many different ways you can makeusing subtraction. Explain you method Create two subtraction number sentences from the given numbers.
	Objective	Concrete			Pictorial	Abstract
1	Taking away ones	Use physical objects, counters, cubes etc. to show how objects can be taken away. 4-2=2		Cross out drawn objects to show what has been taken away. 4-2=2		4-2=2
	Counting back	Make the larger number in your subtraction. Move the beads along your bead string as you count backwards in ones.		Count back on a number line or number track 9 10 11 12 13 14 15 Start at the bigger number and count back the smaller number, showing the jumps on the number line.		Put 13 in your head, count back 4. What number are you at? Use your fingers to help.
Year	Find the difference	13-4=9         Compare amounts and objects to find the difference.         spatia         again         3gain         y </td <td colspan="2">+5 0 1 2 3 4 5 6 7 8 9 10 Count on to find the difference. Lisa is 13 years old. Her sister is 22 years old. Find the difference in age between them. 13 ? Lisa Sister 22 Draw bars to find the difference between 2,numbers.</td> <td>Hannah has 8 goldfish. Helen has 3 goldfish. Find the difference between the <u>number</u> of goldfish the girls have.</td>		+5 0 1 2 3 4 5 6 7 8 9 10 Count on to find the difference. Lisa is 13 years old. Her sister is 22 years old. Find the difference in age between them. 13 ? Lisa Sister 22 Draw bars to find the difference between 2,numbers.		Hannah has 8 goldfish. Helen has 3 goldfish. Find the difference between the <u>number</u> of goldfish the girls have.



Year 2	Calculating strand: SUBTRACTION						
Vocabulary			Key Questions				
Subtraction, subtract, take away, difference, diff ones, partition, near multiple of 10, tens boundary ten less one hundred less, more, one more, two n more	, Less than, one less, two less	How many more to make? How many more is than? How much more is? How many are left/left over? How many fewer is than? How much less is? Is this true or false? If I know that 7 + 2 = 9, what else do I know? (e.g. 2 + 7 = 9; 9 - 7 = 2; 9 - 2 = 7; 90 - 20 = 70 etc). What do you notice? What patterns can you see?					
	<u>Example</u>	Questions	Questions				
Basic	A	dvancing	Deep				
Useand in a number sentence.	Compare which method you p	refer to use	Prove how you know the answer is				
Ilustrate the problem	Identify patterns in the numbe	r sentences	<b>Investigate</b> how many different ways you can makeusing subtraction.				
Name the number bonds	Modify the numbers to change	e the answer	Explain you method				
Memorise the subtraction facts to	Organise the numbers into a r	number sentence.	Create two subtraction number sentences from the given				
Match the answers to the number problems Tell a friend how you solved the problem			numbers.				

See year one for concrete approach to counting back See year one appraoches for pictorial representation. 36-7= © Bounce back 30-7= © Jump back	36
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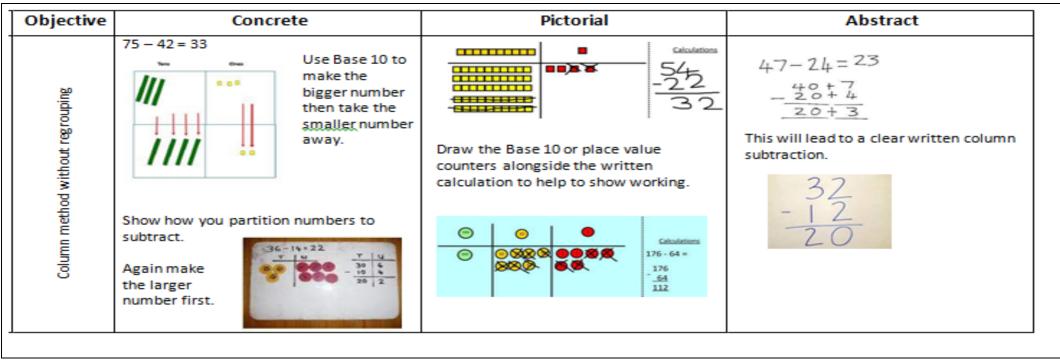


Subtraction of two 2-digit numbers should move onto examples with crossing 10 - as shown in the Interim framework 2018/2019

Only move children on to using the column methods once they have become secure in the use of number lines.

Ensure you follow the CPA approach to support this new strategy.







Yea	r 3		Calcu	ulating s	trand: SUBTRAC	TION	V
		Vocabulary					(ey Questions
Hundreds, tens, ones, estimate, partition, recombine, difference, decred multiple of 10 and 100, inverse, rounding, column subtraction, exchange and Y2				What do you notice? What patterns can you see?			
				<u>Example (</u>	<u>Questions</u>		
		Basic		Adva	ncing		Deep
Describe your method of subtraction to a partner.       Explain your method         Tell a friend how you solved the problem       Estimate the ans         Compare two wr       preferred method			ethod Creat nswer Creat vritten methods and explain which one is your used.		Create Create used.	e you are correct te a word problem te a help sheet to explain the written method that you have stigate the difference in journey time/distance.	
	Objective	Concrete			Pictorial		Abstract
Year 3 onwards	Column method with regrouping	Use Base 10 to start with bef on to place value counters. So one exchange before moving subtractions with 2 exchange Make the larger number with value counters Start with the ones, can I tal from 4 easily? I need to exch my tens for 10 ones. Now I can subtract my ones.	tart with onto s. h the place	Draw the c grid and sh by crossing clearly sho When conf own way to exchange/ Just writin shows that method an exchange/	counters onto a place valu now what you have taken g the counters out as well wing the exchanges you n fident, children can find the precord the regrouping. g the numbers as shown h the child understands the d knows when to	away as nake. neir nere	836-254*582         300         200       50         200       50         200       50         500       80         200       2         Children can start their formal written method by partitioning the number into clear place value columns.         7 28-582*146         4       2         5       9         2       7         4       2         5       9         2       7         4       6         5       9         7       4         6       5         9       2         Moving forward the children use a more compact method.
			234	Step 2	i i i i i i i i i i i i i i i i i i i		



Year 4			Calculating	strand: SUBTRACTION		
Vocabulary				Key Questions		
how many more to boundary, thousa	n, more, plus, increase, sum, total, altog o make? how much more? ones bounda nds boundary, tenths boundary, hundre r? Equals sign, is the same as.	ry, tens b	oundary, hundreds	What do you notice? What's the same? What's different? Can you convince me? How do you know?		
			<u>Example (</u>			
	Basic		Adva	ancing	Deep	
Use a different addition method to solve the calculation.Explain your methodDescribe your method of subtraction to a partner.Estimate the anTell a friend how you solved the problemCompare two wpreferred methodpreferred method			the answer two written methods an	nd <b>explain</b> which one is your	Prove you are correct Create a word problem Create a help sheet to explain the written method that you have used. Investigate the difference between journey time/distance.	
Objective	Concrete		Pictorial		Abstract	
Column method with regrouping	Now I can take away 8 tens and complete my subtraction.	234 88 24 88 146 nethod side ers			This will lead to an understanding of subtracting any number including decimals. $-\frac{2}{2} \times \frac{5}{6} \times \frac{12}{3} \times \frac{1}{6} \times \frac{1}{5}$	



Year 5	Calculating strand: SUBTRACTION							
	Vocabulary			Key Questions				
Tens of thousand Also see previous	•		What do you notice? What's the same? Wha Can you convince me? How do you know?	What's the same? What's different? Can you convince me?				
		F	cample Questions					
	Basic	<u> </u>	Advancing		Deep			
List all the different vocabulary for subtraction.EstimateTell me the method you have used to find the difference.estimationFind the pattern and repeat it.Explain			timate the answer to, work out the answer to check your imation. plain your method.		<b>Create</b> your own word problem. <b>Design</b> your own menu/bedroom purchasing food/objects with a given amount to spend working out how much spare money will be left over. <b>Investigate</b> differences between distances travelled on a map.			
Objective	Concrete	Pictorial		At	Abstract			
Column method with regrouping	Now I can take away 8 tens and complete my subtraction.	nethod side ers		Solve these problems. Reme estimate your answer first. 136.04 + 102.27 → 136. +102. 238. 2.37 - 0.031 → 2.3 - <u>0.0</u> 2.3	<ul> <li>Write in vertical column, aligning the decimal points.</li> <li>Add each column, starting on the right. Regrouping digits where needed.</li> <li>Write in vertical column, aligning the decimal points.</li> </ul>			

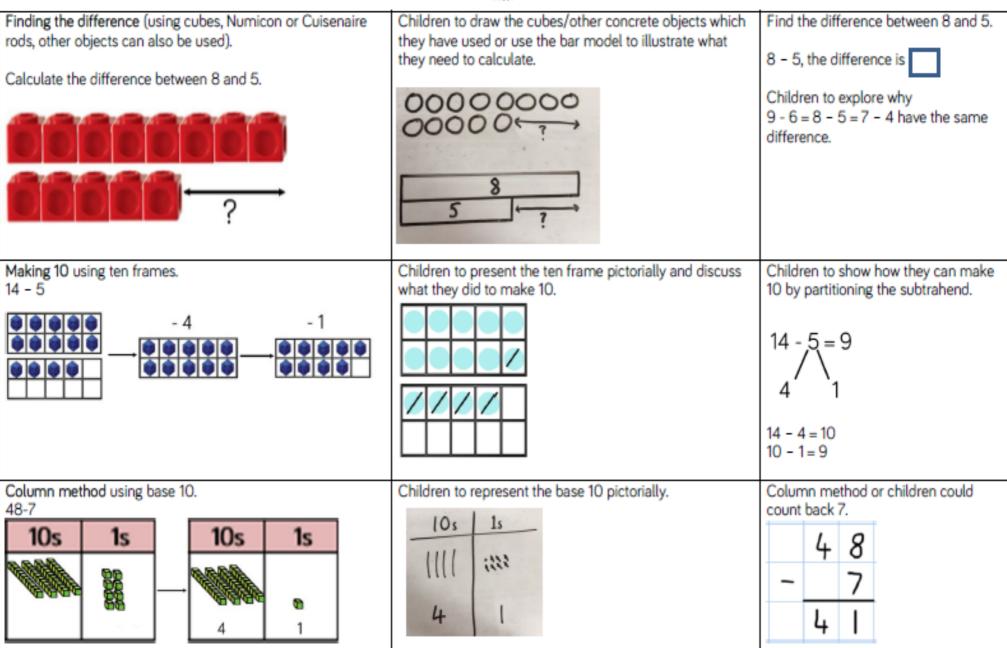


Year 6	6 Calculating strand: SUBTRACTION						
Vocabulary			Key Questions				
See previous yea	rs		What do you notice? What's the same? What's di Can you convince me? How do you know?	ferent?			
			Example Questions				
	Basic		Advancing	Deep			
List all the different	ction to find how many more vocabulary for subtraction. you have used to find the difference. d repeat it.	<ul> <li>Predict if x - y would total an odd or an even number.</li> <li>Estimate the answer to, work out the answer to check your estimation.</li> <li>Explain your method.</li> <li>Organise your calculation</li> </ul>		Create your own word problem. Design your own menu/bedroom purchasing food/objects with a given amount to spend working out how much spare money will be left over. Investigate differences between distances travelled on a map.			
Objective	Concrete		Pictorial	Abstract			
Column method with regrouping	Now I can take away 8 tens and complete my subtraction.	234 - 88 - 88 - 224 - 88 - 146 - 146 - method gside bers					



## Further Subtraction Support.

Concrete	Pictorial	Abstract
Physically taking away and removing objects from a whole (ten frames, Numicon, cubes and other items such as beanbags could be used). 4 - 3 = 1	Children to draw the concrete resources they are using and cross out the correct amount. The bar model can also be used.	4-3 = 2 = 4-3 $4-3 = 2 = 4-3$ $4 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =$
Counting back (using number lines or number tracks) children start with 6 and count back 2. 6 - 2 = 4 1 2 3 4 5 6 7 8 9 10	Children to represent what they see pictorially e.g.	Children to represent the calculation on a number line or number track and show their jumps. Encourage children to use an empty number line



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