

YEAR 1		Calculat	ring strand: Al	DITION	15/11/19	
Vocabulary			Key Questions			
Addition, add, forwards, put together, more than, total, altogethe distance between, difference between, equals = same as, most, pa odd, even, digit, counting on, part, whole		same as, most, pattern,	more is? One more, two more, ten more What can you see here? Is this true or false? What is the same? What is different?			
		<u>Example (</u>	Questions			
Basic		Advancing			Deep	
Use and in a number sentence	9.	Compare which method you	a prefer to use Prove how you know the answer is		answer is	
Illustrate the problem Name the number bonds		Modify the numbers to change the answer		Investigate how many diff using addition. Explain you method	-	
Memorise the addition facts to Match the answers to the number problems Tell a friend how you solved the problem				Create two addition numb numbers.	reate two addition number sentences from the given umbers.	
ຼື string and th	e larger number or en count on to the 1 to find the answ	the bead	r line to count on in one	1980 - 1985 M. 2000 M. 400 MBS	+ 1 = □	



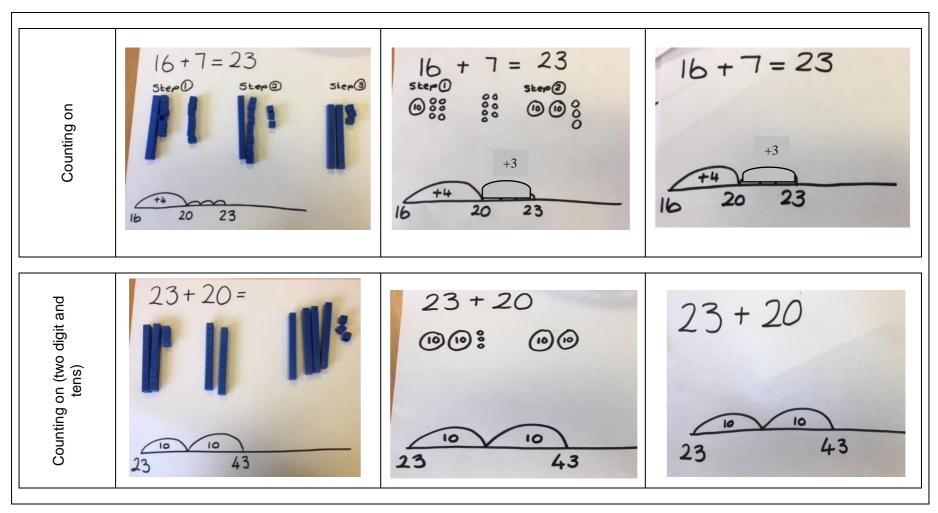
make 10			6 + 5 = 11
Regrouping to ma	6 + 5 = 11 Start with the bigger number and use the	6+5=11	
Re	smaller number to make 10.	6 + 4 =10 10 + 1 = 11	15 + 4 = □

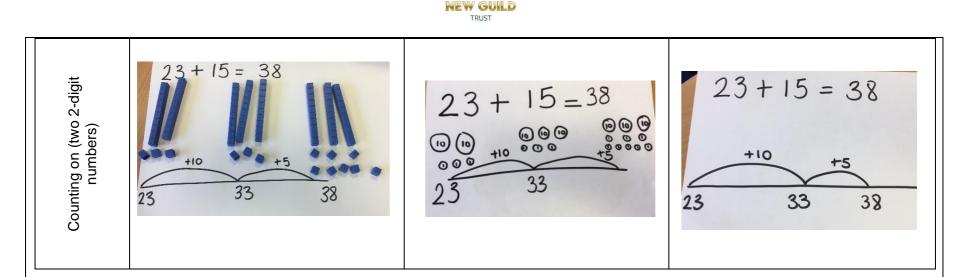


YEAR 2	Calculating strand: ADDITION 15/11/19				
Vocabulary			Key Questions		
+, add, addition, more, plus, make, total, altogether, how many more to make? how many more is than? how much more is? =, equals, sign, is the same as, Tens, ones, partition, near multiple of 10, tens boundary, More than, one more, two more ten more one hundred more, part, whole		How many altogether? How many more to make? How many more is than? How much more is? Is this true or false? If I know that 17 + 2 = 19, what else do I know? (e.g. 2 + 17 = 19; 19 - 17 = 2; 19 - 2 = 17; 190 - 20 = 170 etc). What do you notice? What patterns can you see?			
	Examp				
Basic	:		Advancing Deep		
Useand in a number sentend	ce.	Compare which method you prefer to use		Prove how you know the answer is	
Illustrate the problem Name the number bonds		Identify patterns in the number sentences Modify the numbers to change the answer		Investigate how many different ways you can makeusing addition.	
Memorise the addition facts to Match the answers to the number Tell a friend how you solved the p	r problems	Organise the numbers into a number sentence.		Explain you method Create two addition number sentences from the given numbers.	

	Concrete	Pictorial	Abstract
Adding 3 single digit numbers	 4 + 7 + 6= 17 Put 4 and 6 together to make 10. Add on 7. Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit. 	Add together three groups of objects. Draw a picture to recombine the groups to make 10.	4 + 7 + 6 = 10 + 7 $= 17$ Combine the two numbers that make 10 and then add on the remainder.







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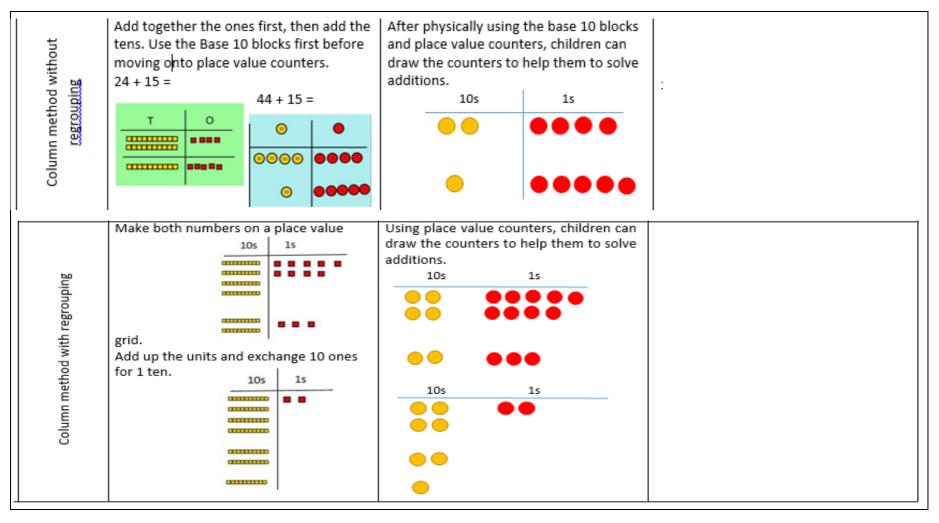
Addition of two 2-digit numbers should move onto examples with crossing 10 - as shown in the Interim framework 2018/2019

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.

Use part/whole model to support the variation.







YEARS 3 & 4		ting strand: AD	DITIO	N 15/11/19		
Vocabulary Year 3	Vocabulary Year 3 Vo		ocabulary Year 4 Key Questions Y		Key Questions Year 4	
partition, recombine, difference, decrease, near multiple of 10 and 100, inverse, rounding, column subtraction, part, whole, exchange See also Y1 and Y2 See also Y1 and Y2 boundary, tenths bou boundary, tenths bou		on, sum, more, plus, otal, altogether, double, e, how many more to w much more? ones rens boundary, hundreds housands boundary, ndary, hundredths nverse, how many r? Equals sign, is the art, whole,	What do you notice? What patterns can you see? When comparing two methods alongside each other: What's the same? What's different? Look at this number in the formal method; can you see where it is in the expanded method / on the number line?		What do you notice? What's the same? What's different? Can you convince me? How do you know?	
	· · ·	· · ·	ons Years 3 and 4			
Basic		Advancing			Deep	
 Useand in a number sentence to make a 3 digit number answer Arrange your addition calculation in a different order Use a different addition method to solve the calculation. Describe your method of addition to a partner. Tell a friend how you solved the problem 		Organise your calculation a Explain your method Estimate the answer Compare two written method is your preferred method. Apply your written method to	ods and explain which one	you have use	rd problem o sheet to explain the written method that	

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Ado for	dd up the units a r 1 ten.	and exchange 10 ones	•		•••	+ <u>527</u> 673
e e	Image: Constraint of the second sec	• 146 • + 527	•••	••		1 As the children move on, introduce
				•		decimals with the same number of decimal places and different. Money can
As		e on to decimals, money e value counters can be earning.	representa value cour		e columns and place ther support their	be used here.
	B By Year 4 child Iding four digit i	dren will progress on to numbers.		on of mone ed separate	ey needs to have £ ely.	



YEARS 5 & 6		Calculating strand: ADDITION 15/1			
	Vocabulary			Key Questions	
tens of thousands boundary, Also see previous years			What do you notice? What's the same? What's different? Can you convince me? How do you know?		
		<u>Example</u> (Questions		
Вс	sic	Adva	ncing	Deep	
Use column addition to add List all the different vocabulary for addition Tell me the method you have used to find the total Find the pattern and repeat it.		Estimate the answer to, work out the answer to check your estimation. Explain your method. Organise your calculation		Create your own word problem. Design your own menu/bedroom purchasing food/objects with a given amount to spend. Investigate distances travelled on a map.	
	•••	umbers with more Iding where the de plac	•		



ENSURE YOU USE A VARIETY OF APPLICATION METHODS FOR ADDITION

Concrete	Pictorial	Abstract
Combining two parts to make a whole (use other resources too e.g. eggs, shells, teddy bears, cars).	Children to represent the cubes using dots or crosses. They could put each part on a part whole model too.	4+3=7 Four is a part, 3 is a part and the whole is seven.
Counting on using number lines using cubes or Numicon.	A bar model which encourages the children to count on, rather than count all.	The abstract number line: What is 2 more than 4? What is the sum of 2 and 4? What is the total of 4 and 2? 4 + 2



