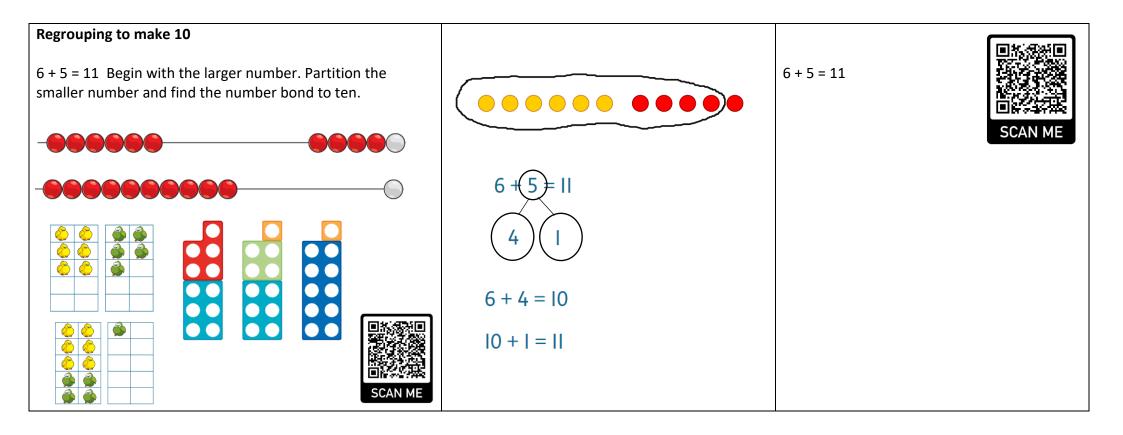
Newbold Verdon Primary School - Calculation Policy		<u>Vocabulary</u> : add, plus, more, total, increase, altogether, combine addend + addend = sum
Addition: Year 1		exchange, regroup, column, digit, value, partition
Concrete	Pictorial	Abstract
Adding one more	Number line	0 + 1= 1
"Walk the one up the stairs."	Count in jumps of one each time on a number	1 + 1 = 2
	line.	2 + 1 = 3
	0 1 2 3 4 5 6 7 8 9 10	"zero add one equals one" "one plus one totals two" "two and one makes three"
Adding facts within 10	Number line	Number sentences
Build fluency through conceptual variation.		
How many ways can we make seven? Which numbers total seven?	0 1 2 3 4 5 6 7 8 9 10	5 + 2 = 7 3 + 4 = 7 1 + 6 = 7
	0 1 2 3 4 5 6 7 8 9 10	0 + 7 = 7
	0 1 2 3 4 5 6 7 8 9 10	

Part-part whole relationships	Part-part whole	4 = 3 + 1
If the whole is four, one part is three, what is the other part?	Bar model	 4 = 1 + 3 Four is equal to three and one Four is the whole. Three is a part and one is a part. 4 = ? + 3 4 = 1 + ?
Doubling Use of a mirror and Numicon can support visualisation.		$ \begin{array}{r} 1 + 1 = 2 \\ 2 + 2 = 4 \\ 3 + 3 = 6 \end{array} $
Number bonds to 10		10 + 0 = 10 9 + 1 = 10 8 + 2 = 10 7 + 3 = 10 6 + 4 = 10 5 + 5 = 10



Addition: Year 2		
Concrete	Pictorial	Abstract
Adding three single digit numbers		4 + 7 + 6 = 17
Look for number bonds within the adding sentence. Following on from making 10, make ten with 2 of the numbers (if possible) then add on the third number. Example 4 + 7 + 6 = 17 Put 4 and 6 together to make 10. Add on 7. ightarrow ightarrow ightar		4 + 6 = 10 10 + 7 = 17
Column method without regrouping (partitioning)	Children can use counters or draw counters to calculate.	
Make both numbers using the	hundreds ones	30 6 15
place value headings (on a grid).		+ 20 3 SCAN ME
Add the ones first, then the tens.	•• ••	50 + 9 = 59
Column method with regrouping	hundreds ones hundreds ones	30 + 8
hundreds ones hundreds ones hundreds ones hundreds ones		20 + 5
		50 + 10 + 3 = 63
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