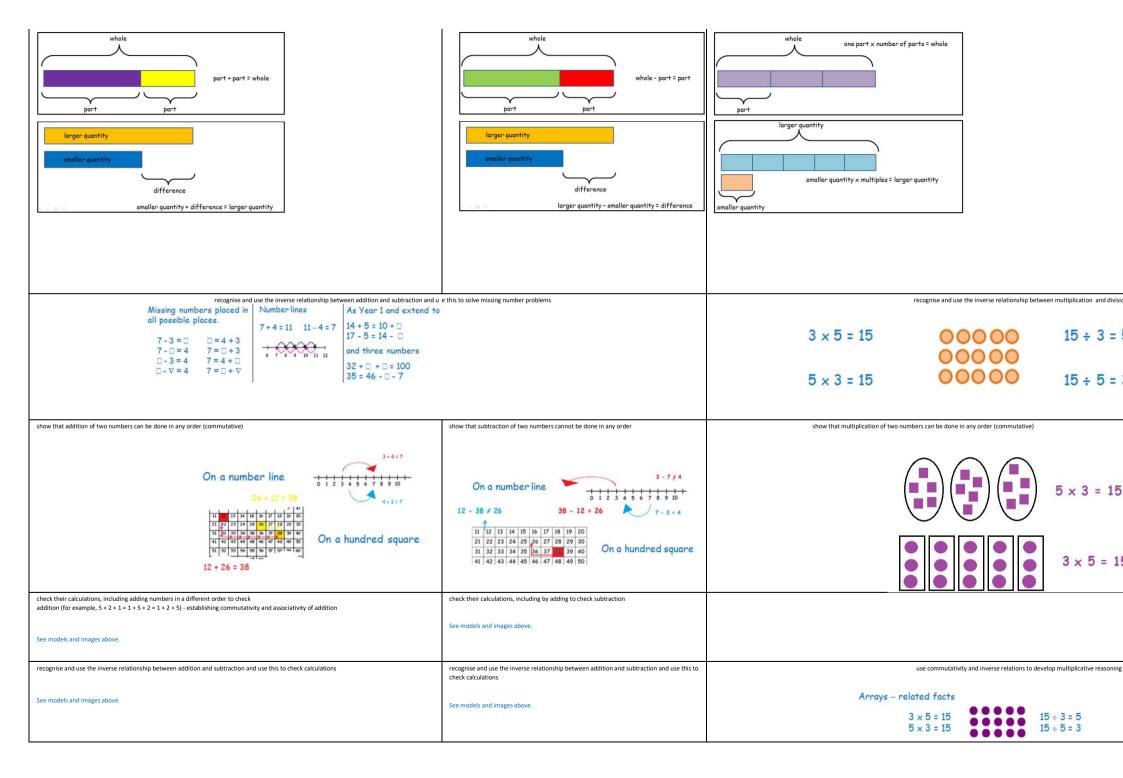


record addition and subtraction in columns	record subtraction in columns	calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (x) and equals (=) signs	calculate mathematical statements for division within the multiplication tables and write them using the division (+) and equals (=) signs
Use partitioned column method.	Introduce partitioned column method where no exchanging is required: 46 - 22 = 24 $40 + 6$	3 x 4 = 12	12 ÷ 4 = 3
Solve calculations that do not cross the tens boundary, until they are secure with the method. Then solve calculations that do cross the tens boundary. Use base 10 (diennes) to support the understanding of 'carrying' and the value of	$\frac{-20+2}{20+4}$	Repetition of sentence with different vocabulary:	Repetition of sentence with different vocabulary:
2 0 + 3		"3 times 4 equals 12"	"12 divided by 4 equals 3"
$\begin{array}{c} + 3 0 + 4 \\ \hline 5 0 + 7 \end{array} \qquad \qquad$	use base 10 (diennes) to support understanding	"3 lots of 4 are 12"	"12 shared by 4 is 3"
= <u>57</u> 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		"3 multiplied by 4 equals 12"	"12 grouped into 4s is 3"
ʻdigits'.		"The product of 3 and 4 is 12"	
28+13			

	Year 2			
Number – addition and subtraction		Number – multiplication and division		
solve problems with addition: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying increasing knowledge of mental and written methods 	 solve problems with subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying increasing knowledge of mental and written methods 	solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in co		
		Use all the models and images mentioned above. Discuss which is most effective and why.		
Use all the models and images mentioned above. Discuss which is most effective and why.	Use all the models and images mentioned above. Discuss which is most effective and why.			
		Singapore Bar Method		
Singapore Bar Method	Singapore Bar Method			



extend their understanding of the language of addition to include sum	extend their understanding of the language of subtraction to include difference	use a variety of language to describe multiplication
 +, add, more, plus, make, sum, total, altogether, score, double, near double, one more, two more ten more, How many more to make? How many more is than? How much more is? Repetition of facts with different vocabulary: "What is 2 add 57" "What is 2 more than 57" "What is 2 plus 57" What is the total of 2 and 57" etc 	 - subtract, subtraction, take (away), minus, leave, how many are left/left over? one less, two less ten less one hundred less, how many fewer is than? how much less is? difference between, half, halve, tens boundary 13 + 5 = 8 Repetition of sentence with different vocabulary: "13 subtract 5 equals 8" "5 less than 13 is 8 "13 take away 5 equals 8" "The difference between 13 and 5 is 8" etc 	count on (from, to), count back (from, to), count in ones, twos, threes, fours, fives count in tens, lots of, groups of, x, times, multiply, multiplied by, multiple of, once, twice, three times ten times times as (big, long, wide a so on), repeated addition, array, row, column, double, halve = equals, sign, is the same as
	= equals, sign, is the same as	