	Year 1: Addition	Vocabulary: add, make total, more than, greater the	Vocabulary: add, make, altogether, sum, and, plus, total, more than, greater than	
Strategy	Concrete	Pictorial	Abstract	
Number bonds to 5 and 10.	Use counters (ten frame), numicon or multi-link to make/ combine two parts together to make a whole. It is important to use this language. Use counters 5+5 $6+4$ $7+3$ $8+2$ $9+1$	Use pictures to add two numbers together as a group of 5 or 10. 0 1 2 3 4 5 6 7 8 9 10 Use part, part whole models/bar model to show number bonds to 5/10. 10 10 2 10 3 10 3 10 3 10 10 10 10 10 10 10 10 10 10	Number sentence to 5/10: 3 + 2 = 5 5 = 4 + 1 10 = 8 + 2 7 + 3 = 10 Equal symbol should be presented at the beginning and end of the number sentence to reinforce understanding of equals meaning same as/balance.	

Counting on (starting	Use practical apparatus to make the largest number and then add on the	Use a number line, starting with the largest number and counting on.	Number sentence:
with the largest	remaining amount through counting on.		7 + 4 = 11
nomber).	=7 :	This can also be done using fingers/putting largest number in head and counting on.	Reorder the number sentence:
	5 + 2 = 7	From using a part, whole model, demonstrate that numbers can be added in any order (commutative) <u>however</u> it is more efficient to begin with the largest number.	3 + 15 = 15 + 3 = 18







Vocabulary: minus, take away, difference, less than, less, leave, left, left over, fewer, <u>subtract, minus,</u> <u>difference between, distance between</u>



Strategy	Concrete	Pictorial	Abstract
Subtracting ones.	Use physical objects to show subtraction of ones. PLAY DOUGH SMASH 8 - 2 = 6	Draw total amount of objects. Cross out number being subtracted	Number sentence: 13 - 1 = 12 7 = 9 - 2
	3 - 1 =	10 - 1 =	Equal symbol should be presented at the beginning and end of the number sentence to reinforce understanding of equals meaning same as/balance.
Number bonds to 5 and 10.	Use counters, numicon or multi-link to make a whole (5 or 10) and take away a part. It is important to use this language.	Use pictures, part, whole model and bar model to take away from a group of 5/10. 10 10 - 2 = 8	Number sentences: 10 - 4 = 6 5 = 10 - 5
	10 – 5 = 5	7 10 - 3 = 3 7	

Counting backwards.	Use practical apparatus to subtract by making the largest number in the number sentence and counting backwards. Bead String: Move the beads along the string,	Use a number line or number track to count backwards, starting with the largest number and counting backwards in jumps of ones. 7 - 3 = 4 1 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 This can also be done using fingers/putting largest number in head and counting backwards.	Number sentence: 7 - 3 = 4 Mental Calculation: 13 - 4 = 9 Put 13 in your head and count back 4. What number have you landed on?
	7 – 2 = 5		
	Counters/Cubes/Objects: Move the objects away, counting backwards in ones.		



Year 1: Multiplication		Vocabulary: double, groups, lot, grouping, array	, twos, tens, fives
		Timetables Progression: 1s 2s 10s 5s	
Strategy	Concrete	Pictorial	Abstract
Doubling.	Use physical apparatus/objects such as counters or multi-link to make one group/lot.	Pictorial One Digit two lots and c nt (one group/lot) and then the total. Two Digit Use part whole model to partition the number and double each part. Recombine to find the total. 10 2	Abstract Number Sentence: $4 + 4 = 8$ $4 \times 2 = 8$ $2 \times 4 = 8$
		20 + 4	

Counting in multiples.	Use practical apparatus/objects to count on in 2's.	Count on using a number line or number track.	Number Sequence: 2, 4, 6, 8, 10 5, 10, ?, 20, ?
Repeated Addition.	Use practical apparatus/objects to make groups for repeated addition. 2 + 2 + 2 = 6	Repeated addition a number line: 5 + 5 + 5 = $5 + 5 + 5 =$ $5 + 5 + 5 + 5 + 5 + 5 + 5 =$ Numbers or pictorial representations can be used beneath the number line to show intervals. 5 + 5 + 5 + 5 + 5 + 5 = $5 + 5 + 5 + 5 + 5 =$	Number Sentence: 4 + 4 + 4 = 12 $4 \times 3 = 12$ $3 \times 4 = 12$



Year 1: Division		Vocabulary: half, halve, pair, share equally, equal groups, grouping, sharing	
Sumary Land		Timetables Progression: 1s 2s 5s 10s	
Strategy	Concrete	Pictorial	Abstract
Sharing (into equal groups)	Use physical apparatus/objects such as counters or multi-link share an amount into equal groups. Share the 9 cakes equally between the 3 bears. Introduce halving as sharing into 2 equal groups.	Represent sharing into equal groups pictorially through drawing an amount being shared equally. Bar models can be used in this stage.	Number Sentence: 6 ÷ 3 = 2 Half of 10 = 5

Grouping	Use physical apparatus/objects such as counters or multi-link to put a given amount into equal groups.	Represent grouping pictorially through drawing equal groups. Put the socks into groups of 2.	Number Sentence: 6 ÷ 3 = 2
Repeated subtraction (using a number line).	Use unifix cubes/bead strings to physically demonstrate how many times a smaller number goes into a larger number. Number lines can be used alongside bead strings/ unifix cubes. $8 \div 2 =$	Use repeated subtraction to demonstrate how many times a smaller number goes into a larger number. $15 \div 3 =$	Number Sentence: 15 ÷ 3 = The number of times you can take 3 from 15 is 5. 15 - 3 - 3 - 3 - 3 - 3 = 0 15 ÷ 3 = 5