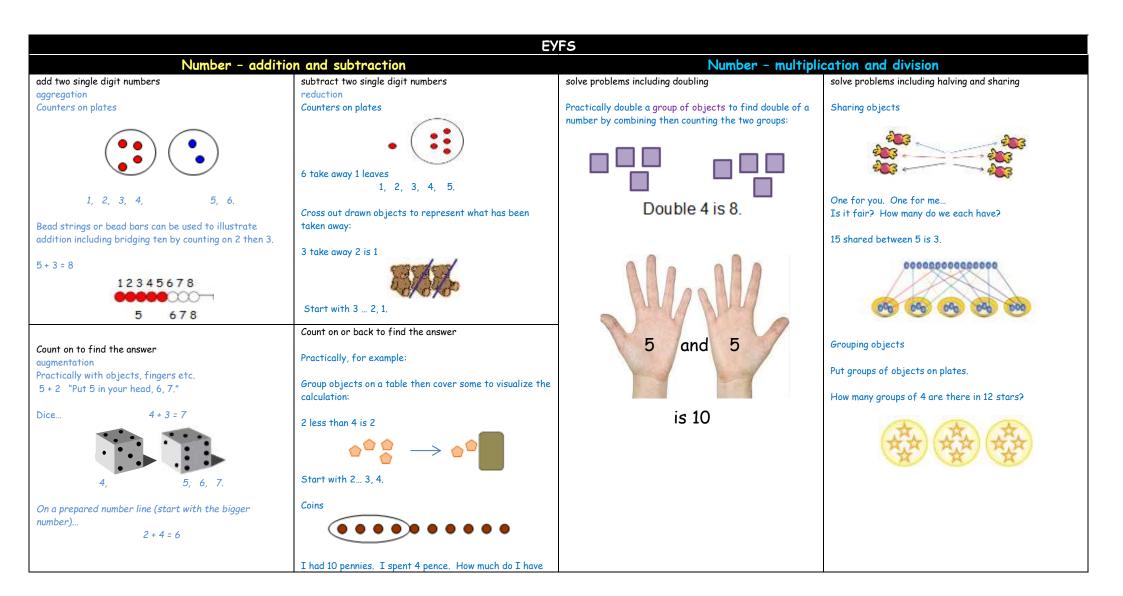
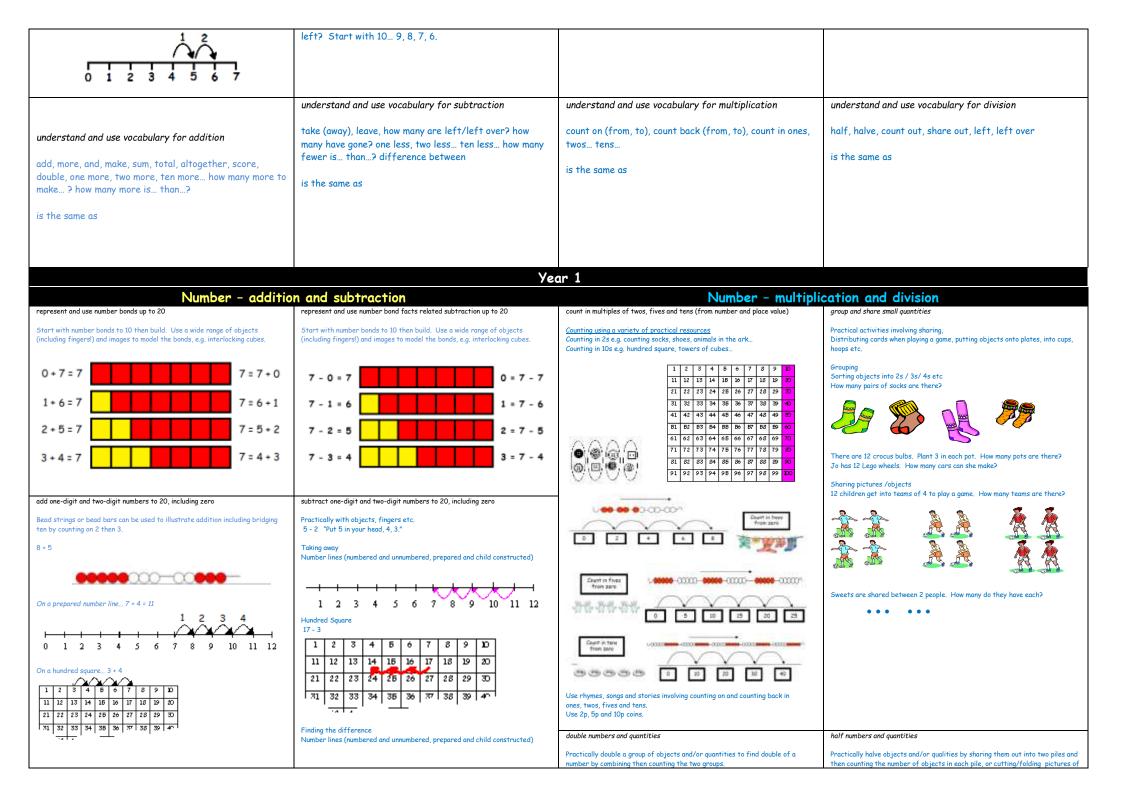


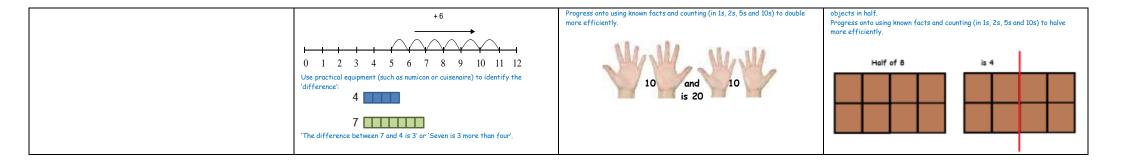
Wootton Bassett Infants' School

Policy Name: Calculations Policy

Author:	WBIS	
Approval Level:	НТ	
Issue Date/Last Amended	September 2023	
Review Date: September 2024		
Review Cycle:	1 year	







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read, write and interpret mathematical statements involving addition (+) and equals (=) signs	read, write and interpret mathematical statements involving and subtraction (-) equals (=) signs	make connections between arrays and number patterns	make connections between arrays and number patterns
It is important to that children have a clear understanding of the concept of equality, before using the '=' sign. Calculations should be on either side of the '=' to that children don't misunderstand '=' as to mean 'the answer'.	It is important to that children have a clear understanding of the concept of equality, before using the '=' sign. Calculations should be on either side of the '=' to that children don't misunderstand '=' as to mean 'the answer'.	Arrays	
15 + 2 = 17 15 = 3 + 12	15 - 2 = 13 15 = 18 - 3	Looking at columns Looking at rows 2 + 2 + 2 3 + 3 3 groups of 2 2 groups of 3	
		Arrays and repeated addition	There are 4 groups of 3 in 12. 12 shared between 4 is 3.
		• • • • • • • • • • • • • • • • • • •	
		2 × 4	
		or 2+2+2+2	
solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = [] + 4	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = $[] \cdot 9$	solve one-step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support	solve one-step problems involving division, by calculating the answer using concrete objects, pictorial representations and arrays with the support
To support this, when solving calculations, missing numbers should be placed in all possible places:	To support this, when solving calculations, missing numbers should be placed in all possible places:	Use all the models and images mentioned above. Discuss which is most effective and why. $\label{eq:constraint}$	Use all the models and images mentioned above. Discuss which is most effective and why.
3 + 4 = 0 = 4 + 3 3 + 0 = 7 7 = 0 + 4	16 - 9 = 0 0 = 16 - 9 16 - 0 = 7 7 = 0 - 9	Singapore Bar Method	Singapore Bar Method
4 + □ = 7 7 = 3 + □ □ + ∇ = 7 7 = □ + ∇	□ - 9 = 7 7 = 16 - □ □ - ∇ = 7 7 = □ - ∇	while one part x number of parts = whole	whole whole + number of parts = one part whole + one part = number of parts
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	part	part
part part = whole	whole - part = part	ierger quantity amailer quantity x multiples = larger quantity	larger quantity = multiple
larger quantity antitian quantity difference	Anger quantity median quantity difference	analler quantity	larger quantity + multiples = larger quantity amailar quantity
analiar quantity + difference i larger quantity	larger quentity - smaller quantity : difference		
understand and use vocabulary for addition, e.g. put together, add, altogether,	understand and use vocabulary for addition and subtraction, e.g. take away,	use a variety of language to describe multiplication	use a variety of language to describe division
understand and use vocabulary for addition, e.g. put together, add, altogether, total and more than	distance between, difference between and less than	use a variety or language to describe multiplication count on (from, to), count back (from, to), count in ones, twos, threes, fours,	use a variety of language to describe division Array, row, column, halve, share, share equally, one each, two each, three
+, add, more, plus, make, total, altogether, score, double, near double, one more, two more ten more,	 subtract, take (away), minus, leave, 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? difference between, half, halve, counting up/back 	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 and so on), repeated addition, array, row, column, double, halve	each group in pairs, threes tens, equal groups of ÷, divide, divided by, divided into, left, left over
= equals, sign, is the same as	= equals, sign, is the same as	= equals, sign, is the same as	= equals, sign, is the same as
How many more to make? How many more is than? How much more is? Repetition of facts with different vocabulary: "What is 2 add 5?" "What is 2 more than 5?" "What is 2 plus 5?" What is the total of 2 and 5?" etc	Repetition of facts with different vocabulary: "What is 7 take away 3?" "What is 3 less than 7?" "What is 7 subtract 3?" "What is the difference between 3 and 7?" etc		

