

Bewdley Primary School Calculation Policy Y1-6 October 2023 Review October 2026 This policy reflects the three key aims of the 2014 National Curriculum:

- Procedural Fluency
- Mathematical Reasoning
- Problem Solving

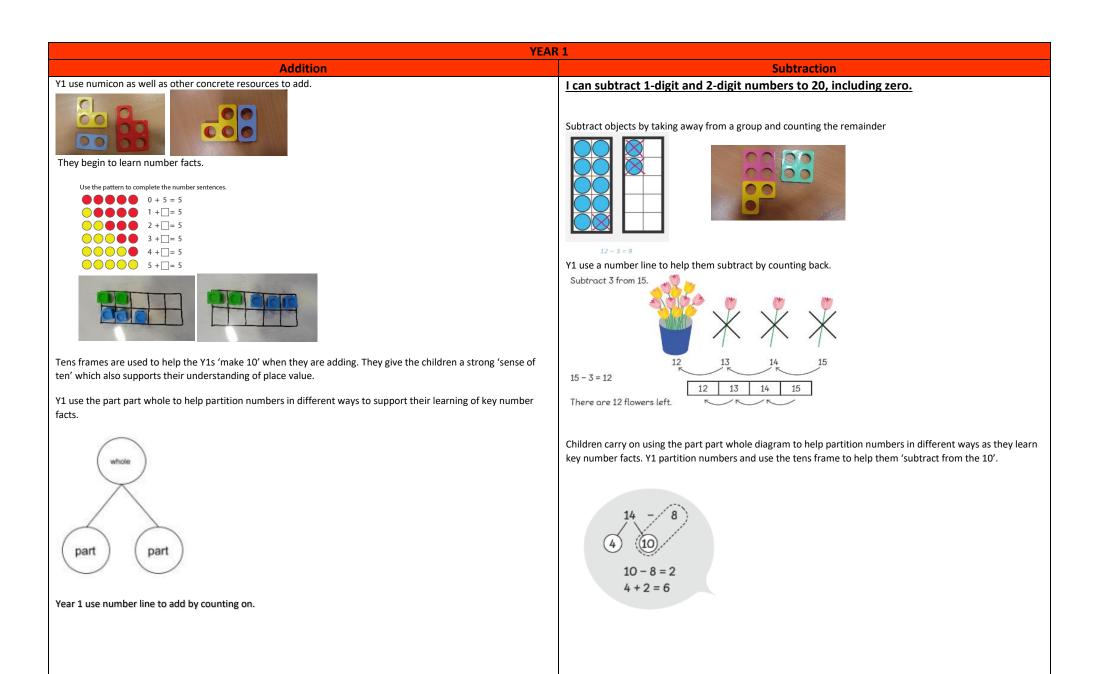
The policy allows consistency of approach and allows children to build on their understanding of place value to develop a deep, conceptual understanding of calculation and the processes used. The use of visual representations and concrete resources is key to allowing children to make the connections between ideas, enabling children to progress and develop as mathematicians.

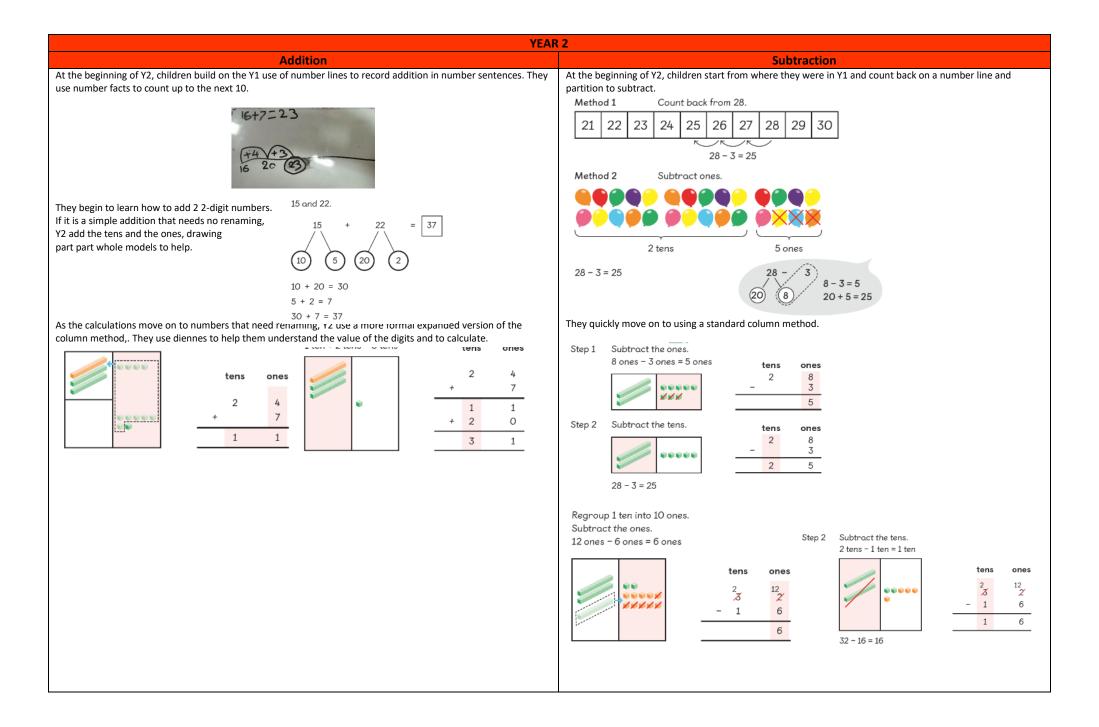
This policy is divided into year groups and sets out a clear progression of the procedures and concepts that should be introduced. Once a calculation method has been taught, children will be given the opportunity to use it to support problem solving and reasoning which is key to the development and progression of all children, as stated in the 2014 National Curriculum:

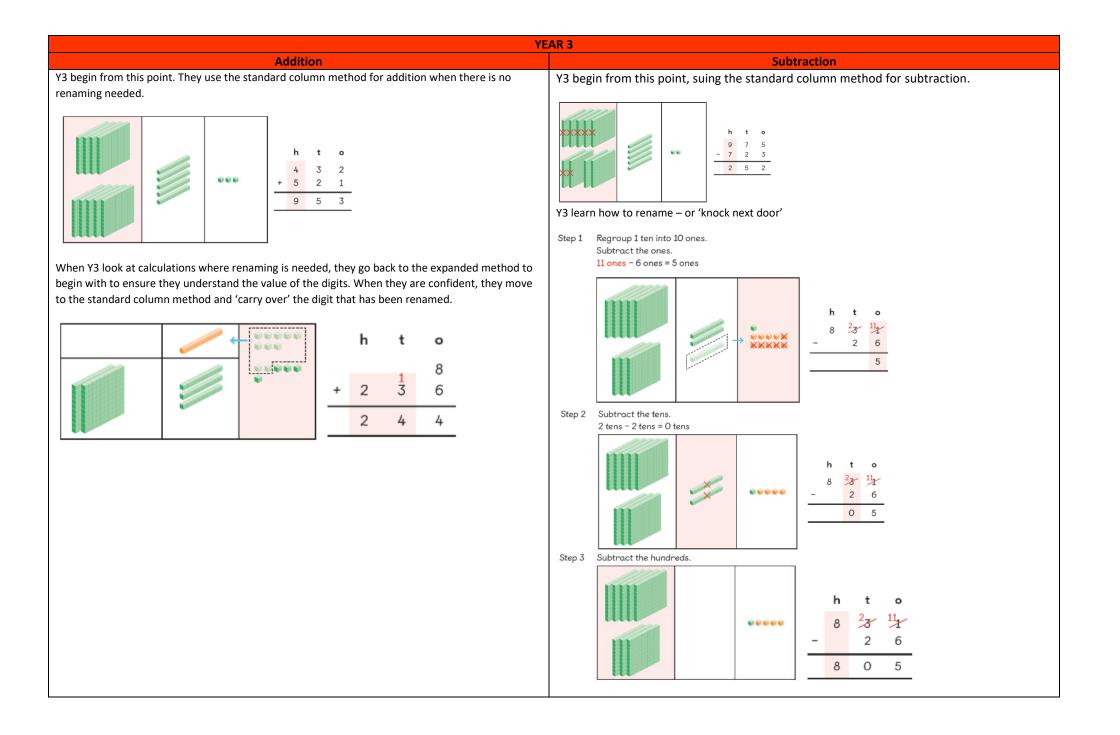
Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

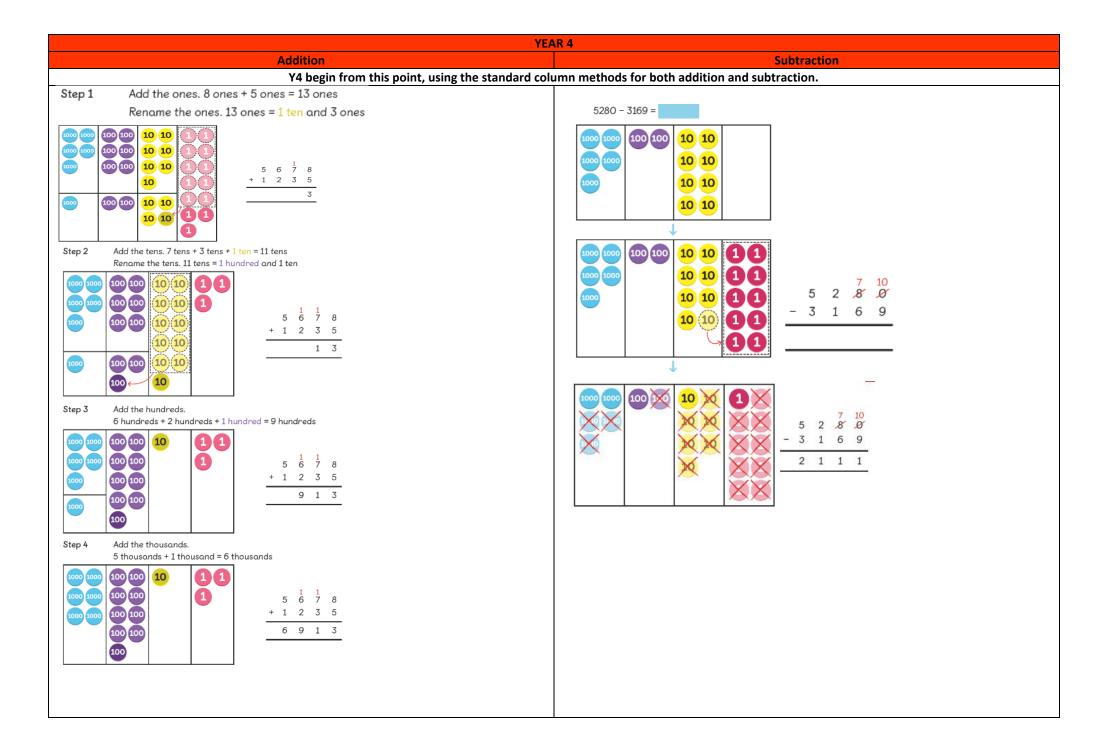
Mathematics National Curriculum 2014

This policy has been updated to ensure it follows the scheme Maths No Problem which is used at BPS.



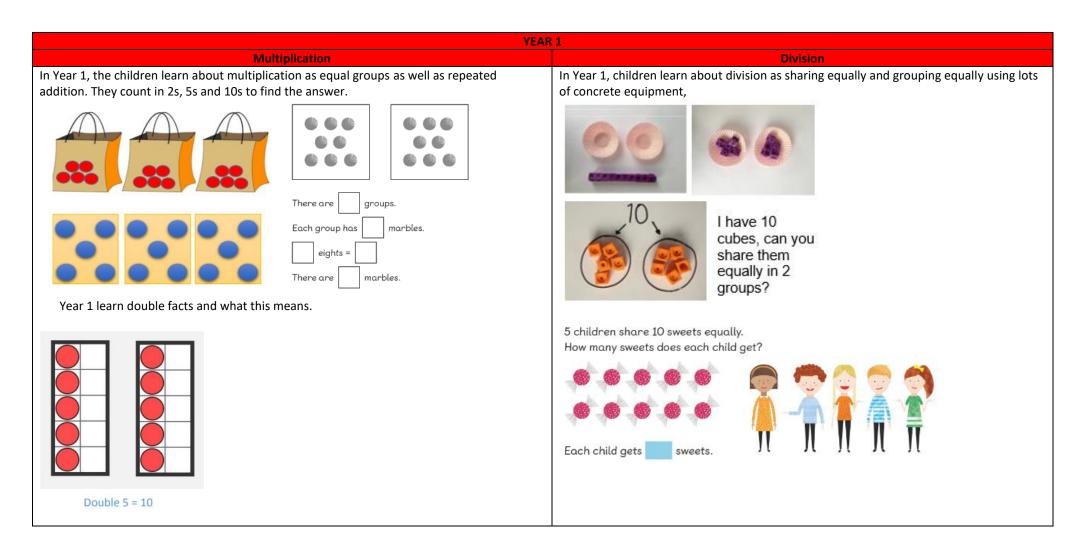




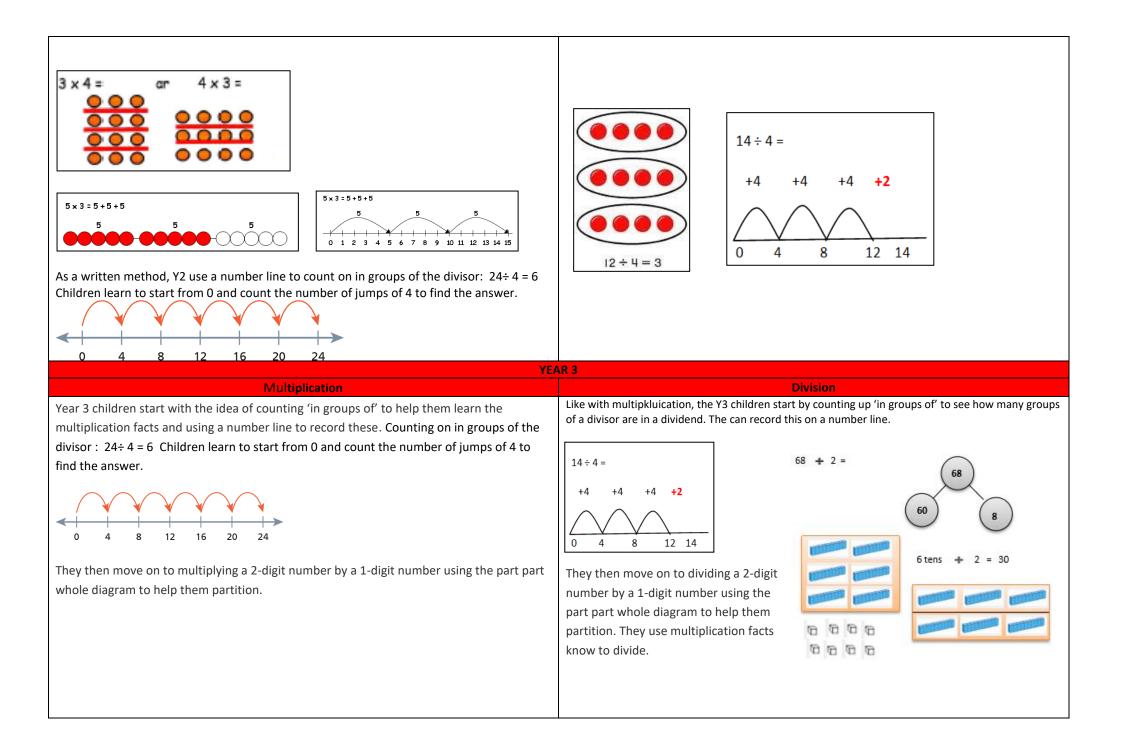


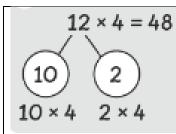
	YEAR 5
Addition	Subtraction
Year 5 continue to build of the standard column method. They use it to calculate n and measure, including decimals. They use 0 as a place holder.	noney Year 5 continue to build of the standard column method. They use it to calculate money and measure, including decimals. They use 0 as a place holder.
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Y	EAR 6
Addition	Subtraction
In Y6 we continue with the Y5 methods of addition.	In Y6, we continue with the Y5 methods of addition.

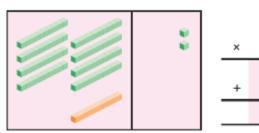


YEAR 2						
Multiplication	Division					
Year 2 build on multiplication of equal groups to learn their times table facts. They look at multiplication and counting in equal groups using lots of concrete and pictorial resources.						



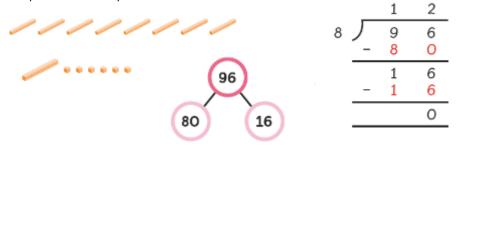


Y3 then move on to a multiplication column method when the calculation requires renaming. Diennes are used to support understanding.



_		t	0
		2	3 4
	×		4
		1	2 0
	+	8	0
		9	2

The idea of formal division or ' the bus stop' method is introduced but the focus is still on using the multiplication facts they know.



YEAR 4

2

1

2

3

1

3 6

8

0

8

10 10 10 10 10 10 10 10 10 10 10 10

10 .

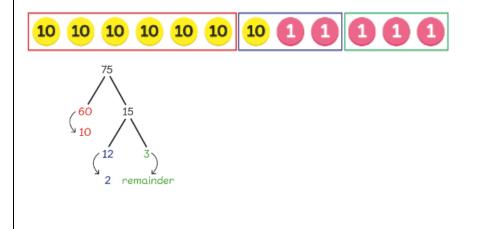
×		1 2	3 6
	1	3	8

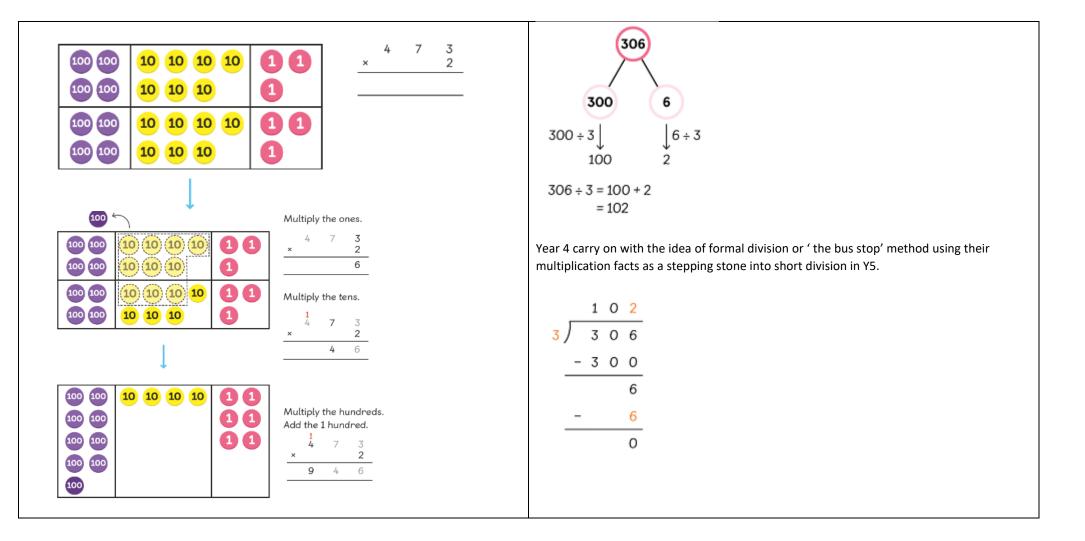
In Y4, the children move onto the standard column method for multiplication, using the expanded version to support understanding as necessary e.g when they move on to multiplying 3-digit number.

Year 4 continue with the idea of partitioning the dividend into multiples of the divisor that they know. They use place value counters to support their understanding of place value and partitioning.

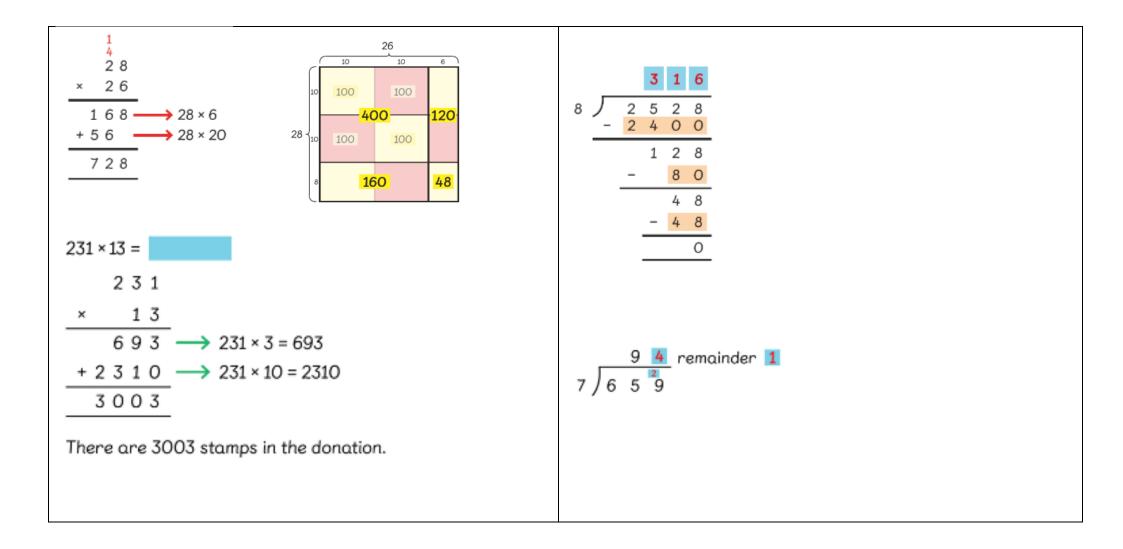
DIVISION





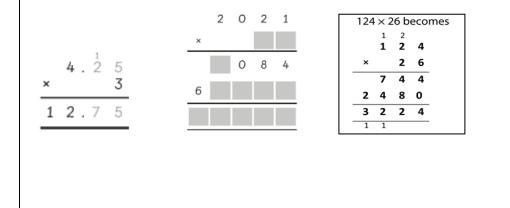


YE	AR 5
Multiplication	Division
In Y5, the children consolidate multiplying by a one digit number before learning to multiply a 2-digit number by a 2-digit number. They use the expanded method initially to ensure understanding of the value of the digits. The grid method is show as a pictorial representation.	Y5 divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. The focus is still on using kown facts and understanding the place value but the children quickly move to the short, condensed 'bus stop' method.



YEA	R 6
Multiplication	Division

This is then extended on in Y6 when the children learn to multiply 3 and 4 digit numbers by 2-dogot numbers. They also multiply decimals.



Year 6 continue to use the formal written method of short division, interpreting remainders according to the context. They begin to divide numbers by 2-digit numbers using the long division method.

			-		_			2	
	3	2	remainder 5	6	/	1	9	6	8
8/5	8	1	•		-	1	8	0	0
_ 5	4		→ 3 tens × 18 = 54 tens				1	6	8
	4	1			-		1	2	0
-	3	6	→ 2 ones × 18 = 36 ones					4	8
		5			-			4	8
	-		mainder 5						0