Bullion Lane Primary School



EYFS Calculation Policy

Bullion Lane Primary School EYFS Calculation Policy

This policy supports the White Rose maths scheme used throughout the school.

Progression within each area of calculation is in line with the programme of study in the 2014 National Curriculum and the EYFS Statutory Framework.

This calculation policy should be used to support children to develop a deep understanding of number and calculation. This policy has been designed to teach children through the use of concrete, pictorial and abstract representations.

Concrete representation – a pupil is first introduced to an idea or skill by acting it out with real objects. This is a 'hands on' component using real objects (manipulatives) and is a foundation for conceptual understanding.

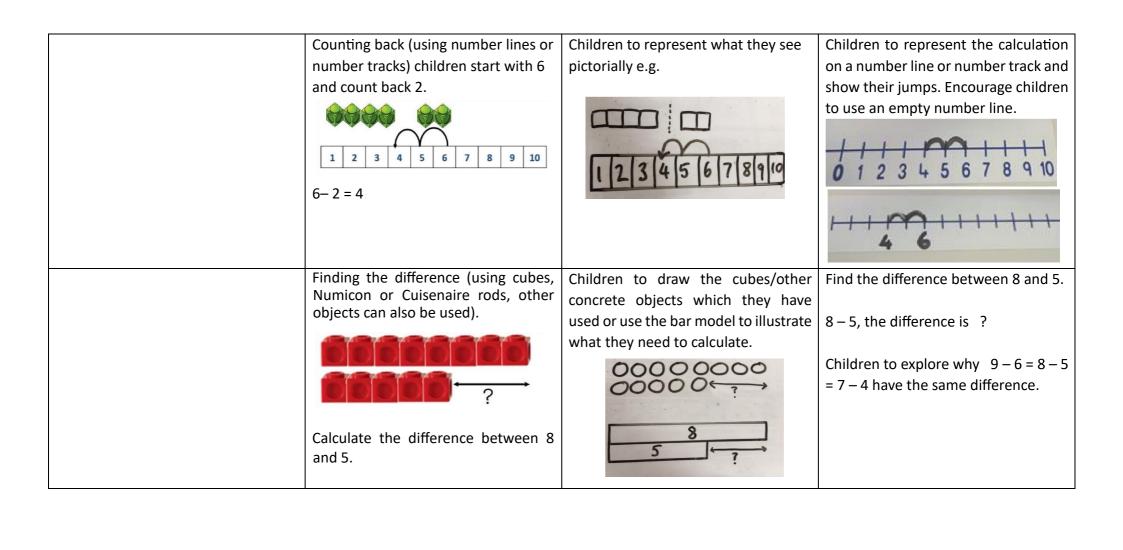
Pictorial representation – a pupil has sufficiently understood the 'hands on' experiences performed and can now relate them to representations, such as a diagram or picture of the problem.

Abstract representation – a pupil is now capable of representing problems and calculations by using mathematical notation, for example 4 - 1 = 3, $12 \times 2 = 24$.

It is important that conceptual understanding, supported by the use of representation, is secure for all procedures. Reinforcement is achieved by going back and forth between these representations.

Addition	Concrete	Pictorial	Abstract				
Key language: sum, total, parts and wholes, plus, add, altogether, more, 'is equal to', 'is the same as'.							
EYFS – Addition Adds and	Combining two parts to make a	Children to represent the cubes	4 + 3 = 7				
subtracts, using quantities and objects, 2 single-digit numbers, and counts on or		using dots or crosses. They could put each part on a part whole model too.	Four is a part, 3 is a part and the whole is seven.				
back to find the answer (ELG). Finds the total number of items in two groups by counting all of them.			7				
			4 3				

Subtraction	Concrete	Pictorial	Abstract				
Key language: take away, less than, the difference, subtract, minus, fewer.							
EYFS – Subtraction Adds and subtracts, using quantities and objects, 2 single-digit numbers, and counts on or back to find the answer (ELG)	Physically taking away and removing objects from a whole (ten frames, Numicon, cubes and other items such as beanbags could be used). 4-3=1	Children to draw the concrete resources they are using and cross out the correct amount. The bar model can also be used.	4-3 = 4-3				



Multiplication	Concrete	Pictorial	Abstract		
Key language: lots of, groups of, equal groups, double, times.					
EYFS – Multiplication Solve problems, including doubling, halving and sharing. Solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups (ELG Exc).	Doubling using objects	Doubling using pictures	Double 2 2 + 2 = 4		
Division	Concrete	Pictorial	Abstract		
Key language: share, group, half, divided by.					
EYFS – Division Solve problems, including doubling, halving and sharing. Solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups (ELG Exc).	Sharing using a range of objects. 6 ÷ 2	Represent the sharing pictorially.	6 ÷ 2 = 3 Children should also be encouraged to use their 2 times tables facts.		

Date written: January 2024

Date agreed and ratified by Governing Body: February 2024

Date of next review: January 2025