

What I learn today, prepares me for tomorrow.

## **Early Years Calculation Policy**

## 2023-2024

Policy Location:	Written:	Review Due:	Person Responsible:
Staff Share ->	November	September	Mark Phillips, Headteacher
Policy Library	2023	2024	SLT
			All staff
			Strategic Committee

## **MAIN PRINCIPLES**

In the statutory framework for EYFS, an Early Learning Goal is the standard children are expected to achieve by the end of their reception year. The ELG relevant to calculations is Number:

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts)

Calculations will be taught in a purposeful, practical way and children will use play and exploration to acquire the relevant mathematical skills to solve them. A large majority of mathematical work is practical, and learning will happen in many different contexts around the classroom and outside. Some mathematical concepts relating to calculations will be teacher led and children can also freely explore these concepts through a variety of different activities and resources set up each day. Learning is repeated using different resources and representations to embed understanding.

This policy has been largely adapted from the White Rose Maths Hub Calculation Policy with further material added. It illustrates the resources used in Reception to support the development of mathematical concepts and an understanding of number that lead to embedding the skills and increasing confidence to perform calculations.

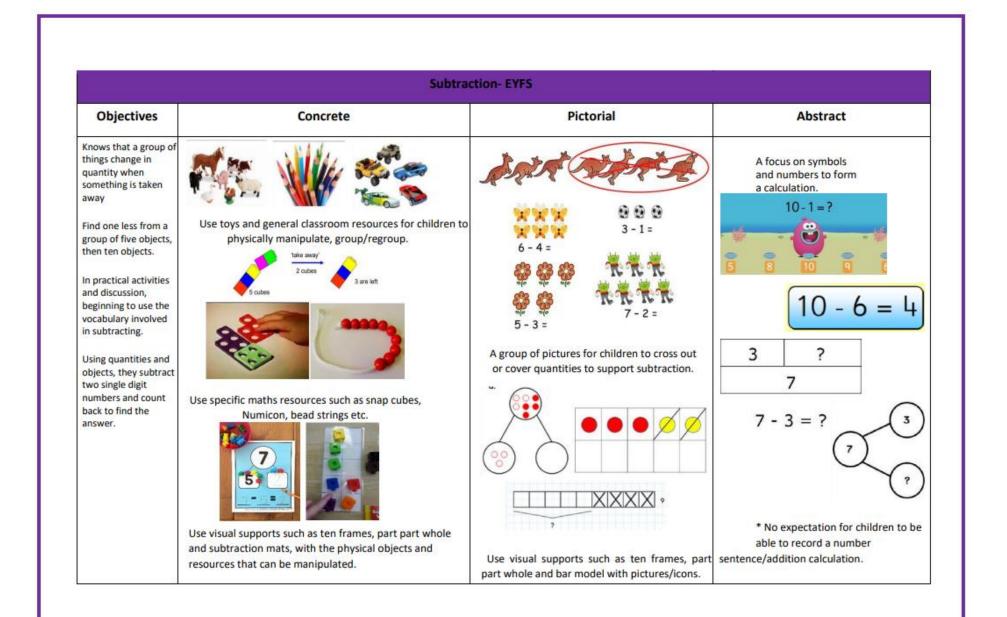
Pupils will leave us prepared for the next stage in their lives with:

- Quick recall of facts and procedures
- The flexibility and fluidity to move between different contexts and representations of mathematics
- The ability to recognise relationships and make connections in mathematics
- Confidence and belief that they can achieve
- The knowledge that maths underpins most of our daily lives
- Skills and concepts that have been mastered
- Have a positive and inquisitive attitude to mathematics as an interesting and attractive subject in which all children gain success.

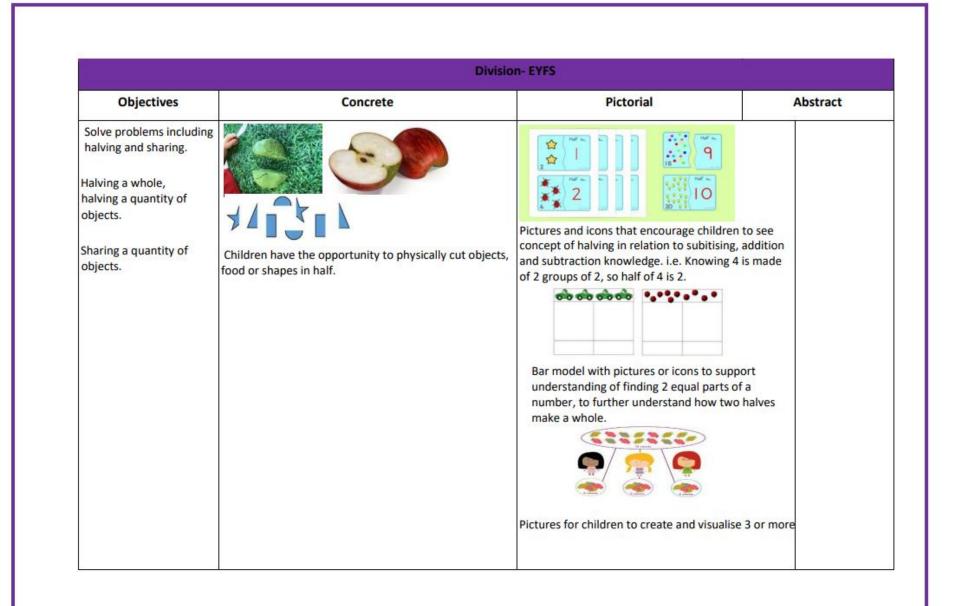
A mathematical concept or skill has been mastered when a child can show it in multiple ways, using the mathematical language to explain their ideas, and can independently apply the concept to new problems in unfamiliar situations and this is the goal for our children.

These will be assessed through: assessment, tracking, pupil progress meetings, performance management, moderation and standardisation.

Addition- EYFS									
Objectives	Concrete	Pictorial	Abstract						
Knows that a group of things change in quantity when something is added. Find the total number of items in two groups by counting all of them.	Use toys and general classroom resources for children to physically manipulate, group/regroup.	Two groups of pictures so children are able to count the total.	A focus on symbols and numbers to form a calculation. 5+2=7						
Says the number that is one more than a given number. Finds one more from a group of up to five objects, then ten objects.	Use specific maths resources such as counters, snap cubes, Numicon etc.		3 part whole 2 part						
n practical activities and discussion, beginning to use the vocabulary involved in adding.		<ul> <li>Use visual supports such as ten frames, part part whole and addition mats with pictures/icons.</li> </ul>	2 3 <del>7</del> 5 5 <del>7</del> 3 2						
Using quantities and objects, they add two single digit numbers and count on to find the answer.	Use visual supports such as ten frames, part part whole and addition mats, with the physical objects and resources that can be manipulated.		5     5     6       7     7   No expectation for children to be able to record a number sentence/addition calculation.						



Objectives	Concrete		Pictorial		Abstract		
Solve problems	No.			1	1+1=	7+7=	
including		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t is double 4?		2+2=	8+8=	
doubling				2	3+3=	9+9=	
			1		4+4=	10+10=	
		4	+ 4 = 8	1	5+5=	11+11=	
	Co	unting and other oths resources	Domino Doubles		6+6=	12+12=	
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Use visual supports such as halving mats and part part whole with the physical objects and resources that can be manipulated





Counting and other maths resources for children to explore sharing between 3 or more

Counting and other maths resources for children to share into two equal groups.

