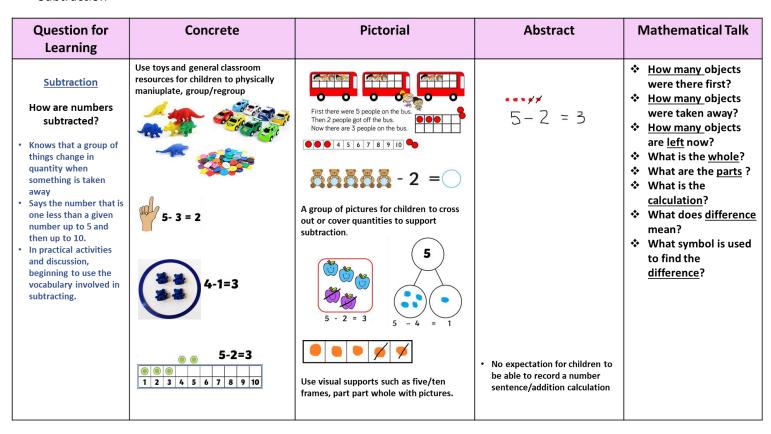
EYFS Maths Calculation Policy

Addition

Question for Learning	Concrete	Pictorial	Abstract	Mathematical Talk
Addition How are numbers added? Children are encouraged to gain a sense of the number system through the use of counting concrete objects. They combine objects in practical ways and find the total. They begin to use + and = to record number sentences. Children develop a mental picture of the number system through subitising to use for calculations. Children use first/then/now stories to work out word problems. Knows that a group of things change in quantity when something is added. Says the number that is one more than a given number.	Use specific math resources such as counters, unifix cubes, Numicon, Rekenreks, etc. Use visual supports such as five/ ten frames, part part whole and addition mats, with the physical objects and resources that can be manipulated	3 + 2 = 5 3 + 2 = 5 5 4 + 1 = 5	3 + 2 = 5 4 + 1 = 5 5 + 0 = 5 * No expectation for children to be able to record a number sentence/addition calculation	 ❖ What does whole mean? ❖ What does part mean? ❖ How can parts/wholes be represented? ❖ Are the parts smaller or larger the more you partition them? Why? ❖ Can 0 be a part? ❖ Can the parts be swapped around? ❖ What does equal mean? ❖ What is the number sentence?

Subtraction



Multiplication

Question for Learning	Concrete	Pictorial	Abstract	Mathematical Talk
Multiplication How are numbers multiplied? Doubling a number creates two groups of the same number Creating multiple groups of the same quantity and counting them together.	Practical fun activities to visualize doubling using mirrors and paint. Physical and real life examples that encourage children to see concept of doubling as adding two equal groups.	Double 4 is 4+4= 1 2 3 4 5 6 7 8 9 10 Counting in 2s 2 groups of 3 is 6	Double 2 = 4 Double 4 = 8 3 + 3 = 6 4+ 4 = 8 5 + 5 = 10	 How many pairs are there? How many objects/animals are there in total? How do we know the groups are equal? How many are in each group? What is the same? What is different? How can I represent the number sentence? What does double mean? How can objects be sorted into equal groups? How many objects are there left over?

Division

Question for Learning	Concrete	Pictorial	Abstract	Mathematical Talk
Division How are numbers divided? • Halving a whole • Share a quantity objects into equal groups and count how many in each group	Children have the opportunity to physically cut objects, food or shapes in half. Counting and other maths resources for children to share into two equal groups. Use visual supports such as halving mats and part part whole, with the physical objects and resources that can be manipulated	Pictures for children to create and visualise 3 or more equal groups. Pictures and icons that encourage children to see concept of halving in relation to subitising, addition and subtraction knowledge. i.e. Knowing 4 is made of 2 groups of 2, so half of 4 is 2.	Half of 8 = 4	 How can you tell if the groups are equal? Can all numbers be shared equally? Does each group need to be arranged in the same way for it to be equal? How can I share the objects equally? How many equal groups am I sharing the objects into? Are the groups equal? Are there any left over?