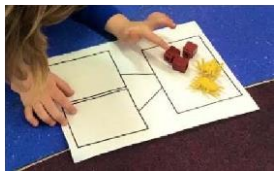
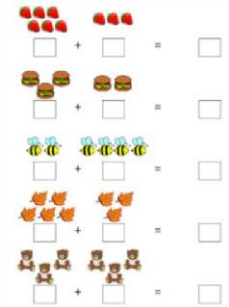
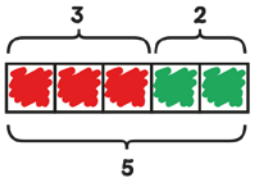
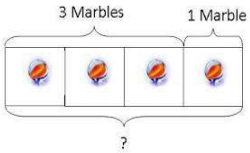
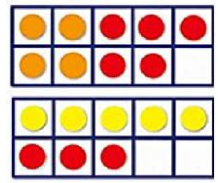
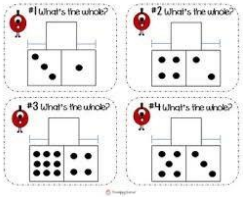
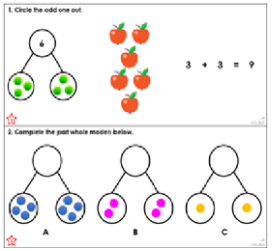
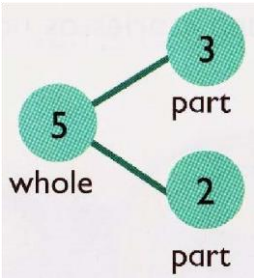
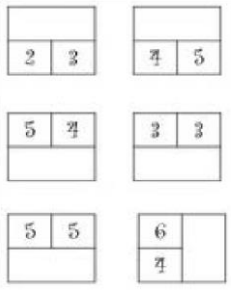
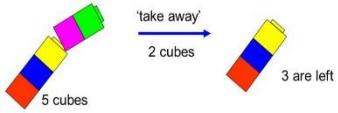
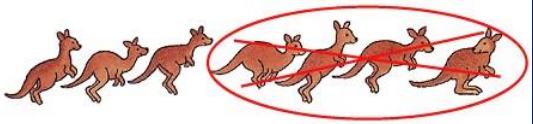
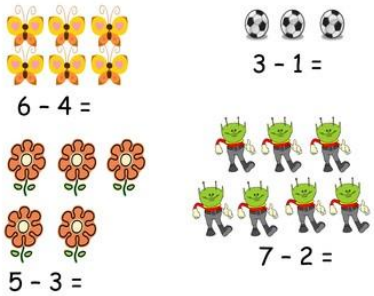
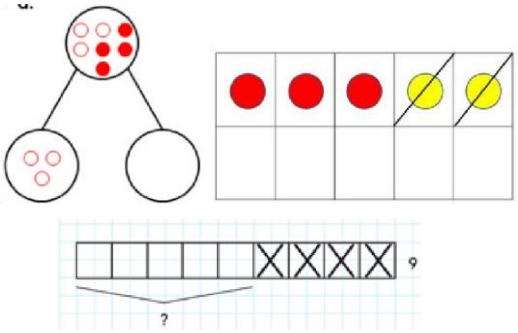
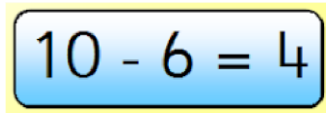
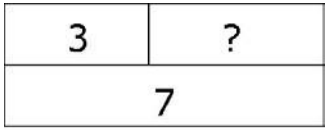
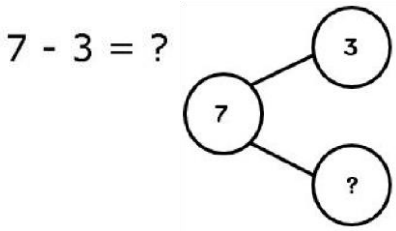
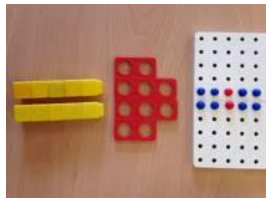
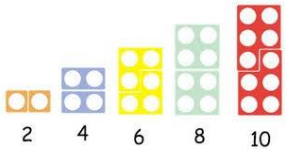
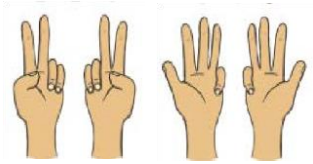
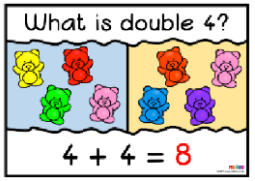
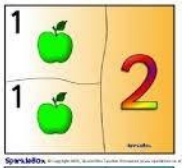
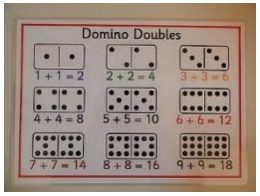
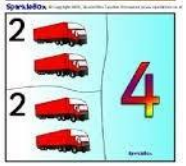
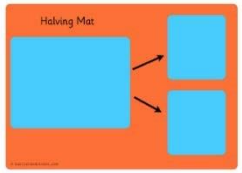
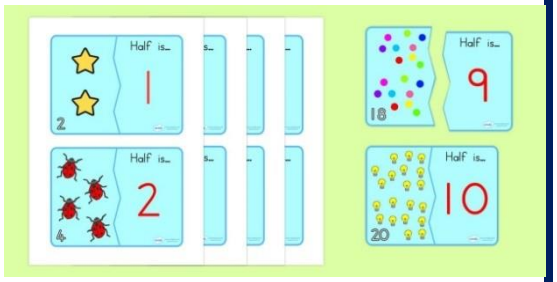
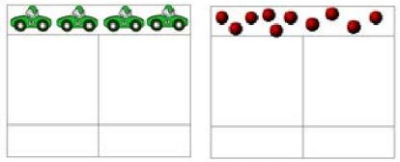
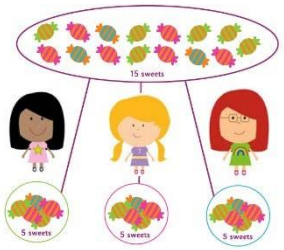
Calculation policy – EYFS

Addition 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. - 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. - In practical activities and discussion, beginning to use the vocabulary involved in adding. - Using quantities and objects, they add two single digit numbers and count on to find the answer. - Solve problems including doubling.	   Use toys and general classroom resources for children to physically manipulate, group/regroup.  Use specific maths resources such as counters, snap cubes, Numicon etc.    Use visual supports such as ten frames, part part whole and addition mats, with the physical objects and resources that can be manipulated.	  Two groups of pictures so children are able to count the total.  Bar model using visuals, pictures/icons or colours.   Use visual supports such as ten frames, part part whole and addition mats with pictures/icons.  	A focus on symbols and numbers to form a calculation. $5+2=7$   * No expectation for children to be able to record a number sentence/addition calculation.

Subtraction objectives	Concrete	Pictorial	Abstract
- Knows that a group of things change in quantity when something is taken away - Find one less from a group of five objects, then ten objects. - In practical activities and discussion, beginning to use the vocabulary involved in subtracting. - Using quantities and objects, they subtract two single digit numbers and count back to find the answer.	   Use toys and general classroom resources for children to physically manipulate, group/regroup.    Use specific maths resources such as snap cubes, Numicon, bead strings etc.   Use visual supports such as ten frames, part part whole and subtraction mats, with the physical objects and resources that can be manipulated.	  A group of pictures for children to cross out or cover quantities to support subtraction.  Use visual supports such as ten frames, part part whole and bar model with pictures/icons.	A focus on symbols and numbers to form a calculation.     * No expectation for children to be able to record a number sentence/addition calculation.

Multiplication objectives	Concrete	Pictorial	Abstract
- Solve problems including doubling	   Counting and other maths resources for children to make 2 equal groups.  Physical and real life examples  that encourage children to see concept of doubling as adding two equal groups. 	    Pictures and icons that encourage children to see concept of doubling as adding two equal groups.	1+1= 7+7= 2+2= 8+8= 3+3= 9+9= 4+4= 10+10= 5+5= 11+11= 6+6= 12+12= Addition calculations to model adding two equal groups.

Division objectives	Concrete	Pictorial	Abstract
Solve problems including halving and sharing. • Halving a whole, halving a quantity of objects. • Sharing a quantity of objects.	   Children have the opportunity to physically cut objects, food or shapes in half.  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.	 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.  Bar model with pictures or icons to support understanding of finding 2 equal parts of a number, to further understand how two halves make a whole.  Pictures for children to create and visualise 3 or more equal groups.	