Power Maths calculation policy Reception

Orchard Meadow Primary School



Power Maths calculation policy, Reception

The following pages show the *Power Maths* progression in calculation (addition, subtraction, multiplication and division). The consistent use of the CPA (concrete, pictorial, abstract) approach across *Power Maths* helps children develop mastery across all the operations in an efficient and reliable way. In Reception, children focus on concrete and pictorial representations. At this stage, children focus on representing objects in different ways e.g. understanding that 5 cars can also be represented as 5 counters, 5 cubes, 5 pictures of cars etc.

In Reception, children are encouraged to record their findings in their own way. This may include writing number sentences e.g. 3 + 4 = 7, however this is not a requirement until Year 1.

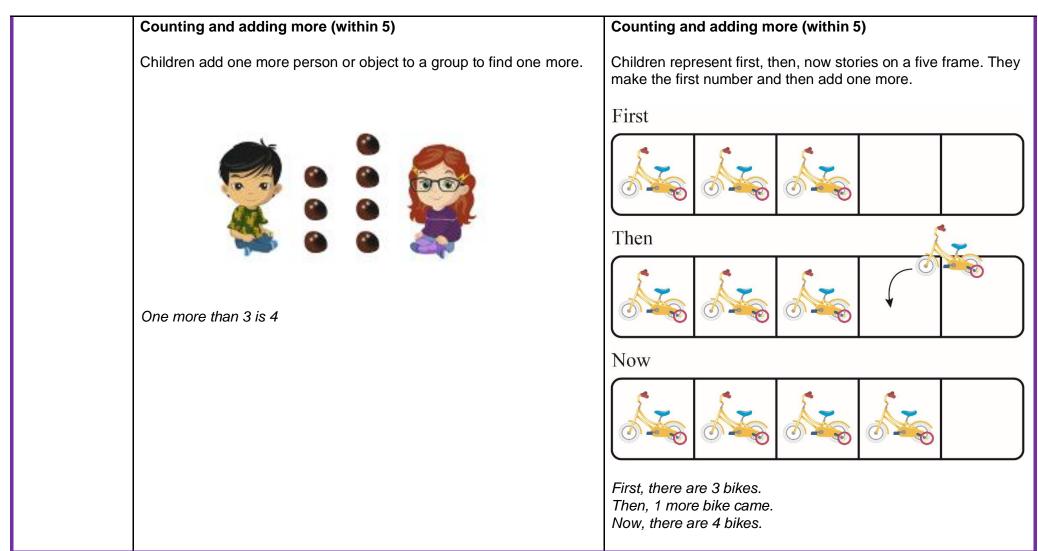


Power Maths calculation policy Reception Children develop the core ideas that underpin all calculation. They begin by connecting calculation with counting on and counting back, but they should learn that understanding wholes and parts will enable them to calculate efficiently and accurately, and with greater flexibility. Children record their calculations in their own ways, there is no expectation of number sentences at this stage however children may choose this way to record their thinking. Key language: whole, part, ones, ten, tens, number bond, add, addition, plus, total, altogether, subtract, subtraction, find the difference, take away, minus, less, more, group, share, equal, equals, is equal to, groups, equal groups, divide, share, shared equally Addition: Subtraction: **Multiplication and Division:** Children start to explore addition by sorting Children start to explore subtraction by sorting Children first start to look at the idea of equal groups. They then use sorting to develop their groups through their exploration of doubles. They groups. They use sorting to develop their understanding of parts and wholes. understanding of parts and wholes. use five frames and objects to check that groups are equal. Children combine groups to find the whole, When comparing groups, children use the using a part-whole model to support their language more than and fewer than. This will lead Children then explore halving numbers by making 2 thinking. They also use the part-whole model to to finding the difference when they move into equal groups. They highlight patterns between find number bonds within and to 10. KS1. doubling and halving seeing that double 2 is 4 and half of 4 is 2. Using a five frame and ten frame, children add Children then connect subtraction with the idea of by counting on. They start by finding one more counting back and finding one less using a five As well as halving, children also explore sharing into before adding larger numbers using counters or frame to support their thinking. more than 2 equal groups. They share objects 1 by cubes on the frames. 1. ensuring that each group has an equal share. They explore subtraction by partitioning numbers, developing their understanding of parts and Children use a number track to add by counting on. Linking this learning to playing board games wholes. This links to their developing recall of is an effective way to support children's addition. number bonds. Children count back within 20 using number tracks and ten frames to see the effect of taking away.

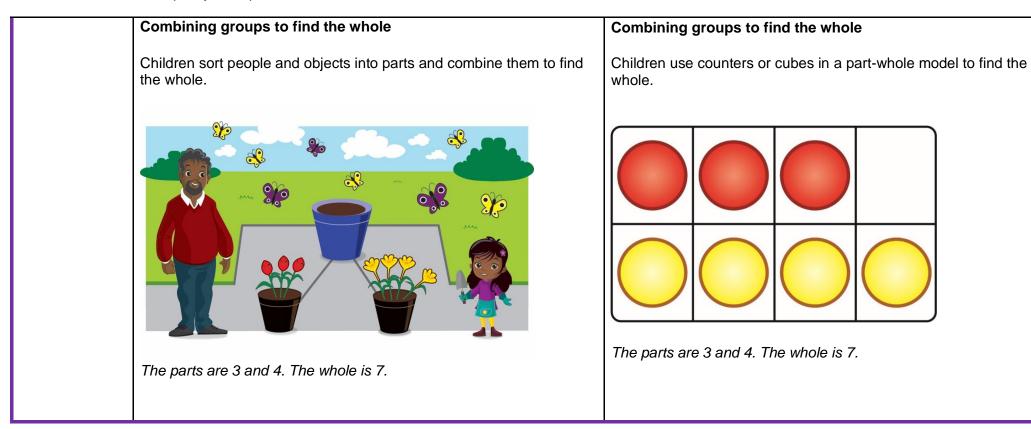


Reception		
	Real-life representation	Other representations
Addition	Sorting groups	
	Children sort everyday objects into groups.	

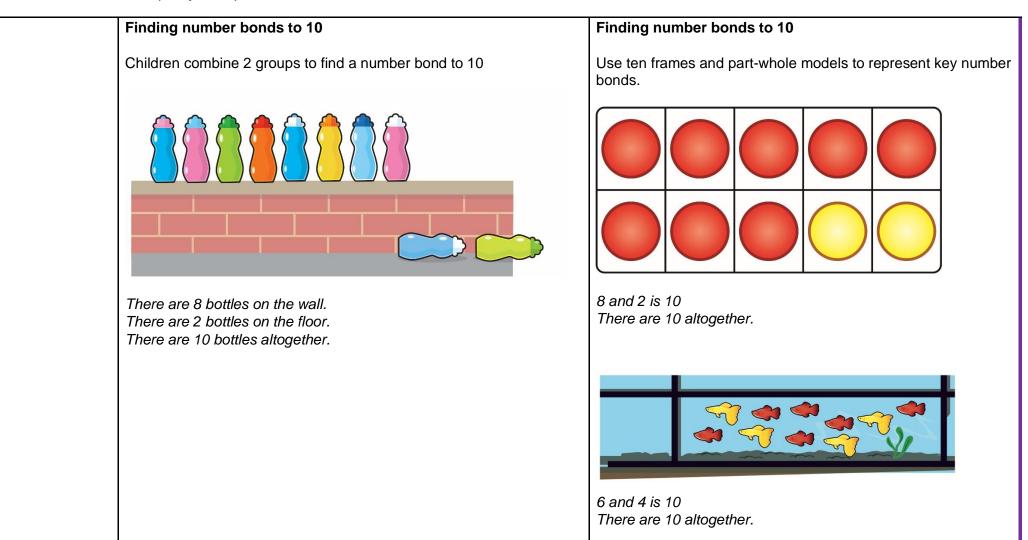




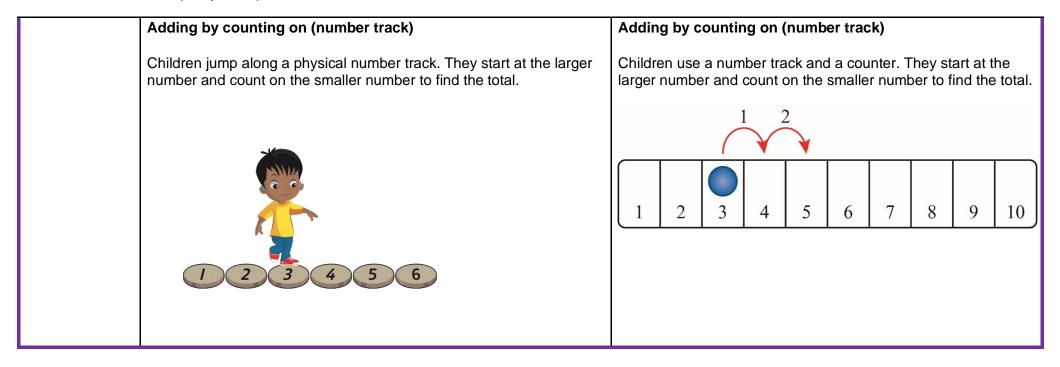




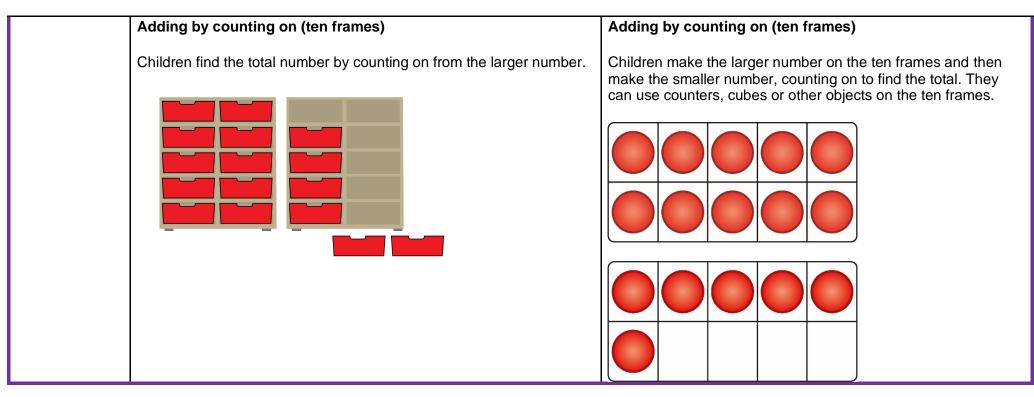






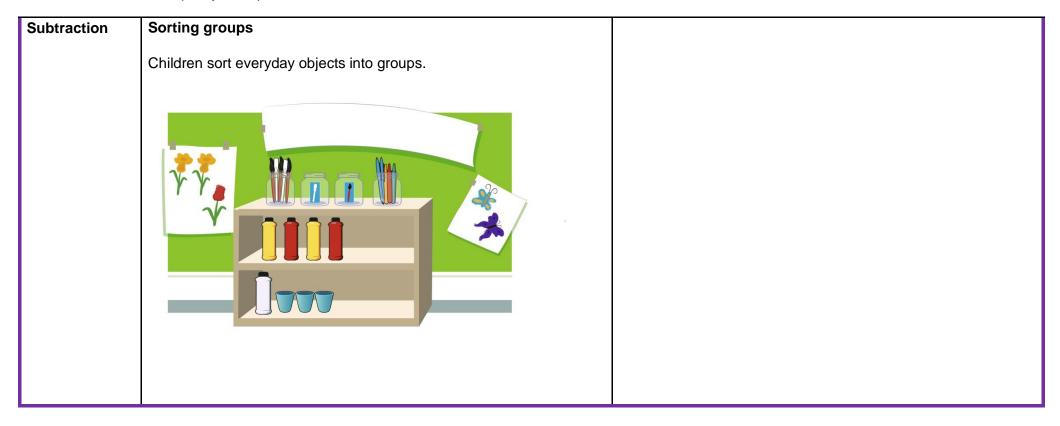




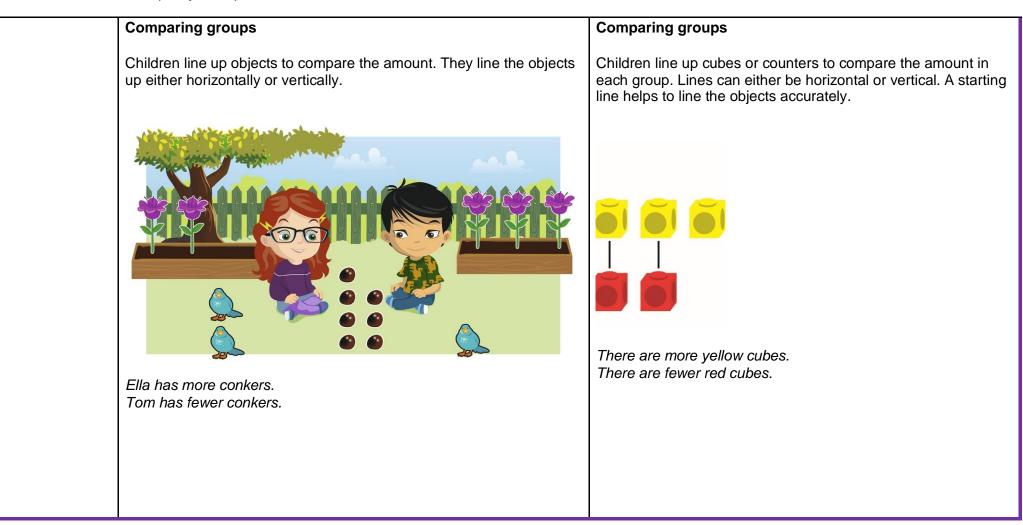


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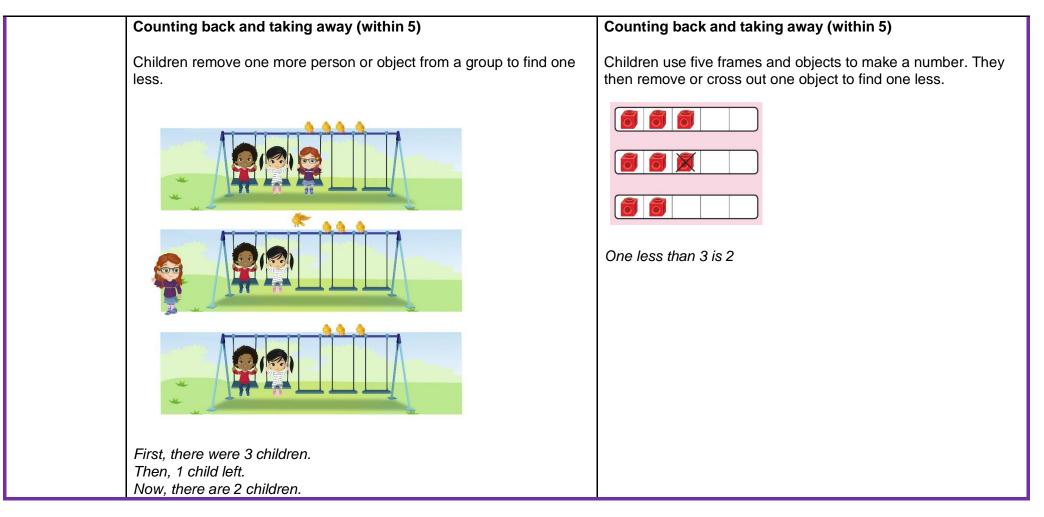




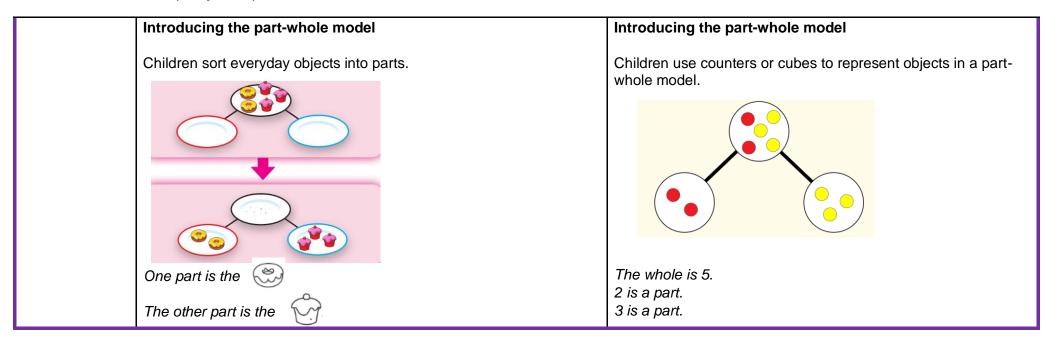




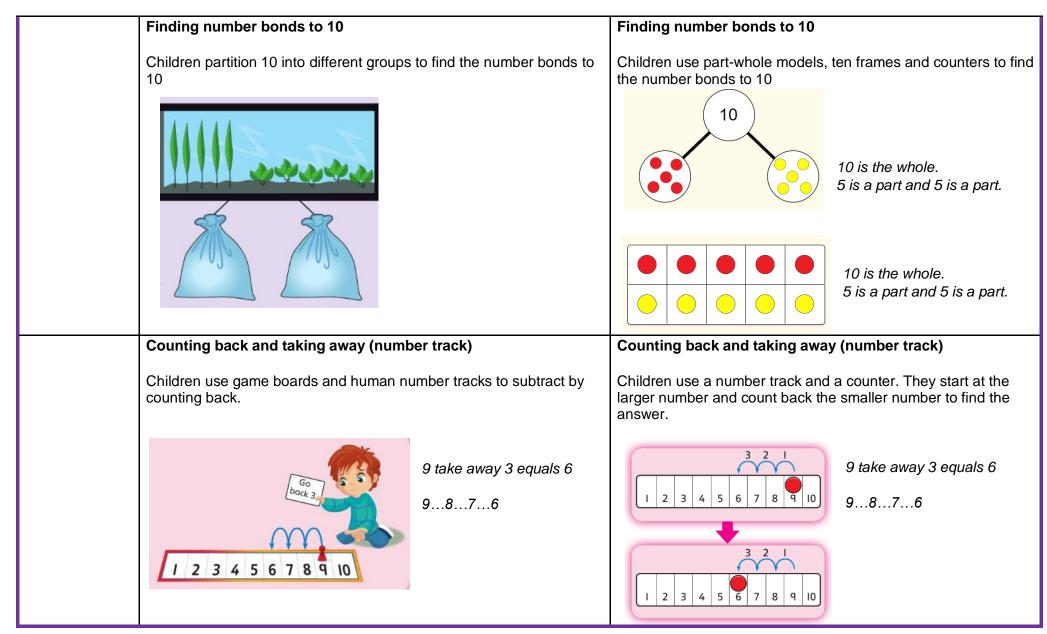








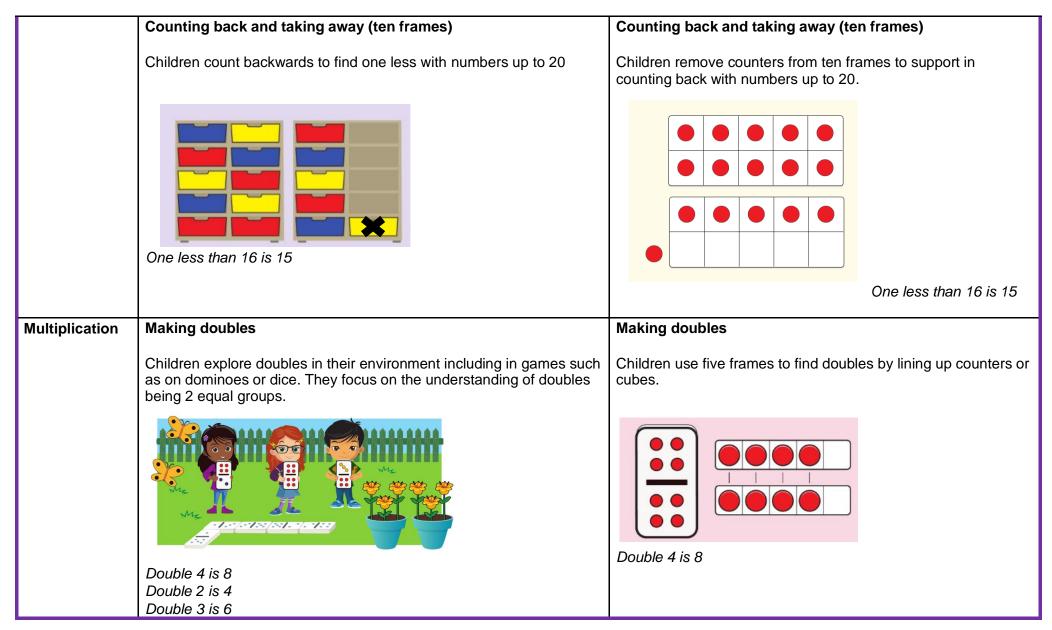




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