





Document Title	Calculation Policy - Reception
Approved by:	Academy - Governors
Approval date:	November 2023
Review frequency:	Annually
Review date:	November 2024



## 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.

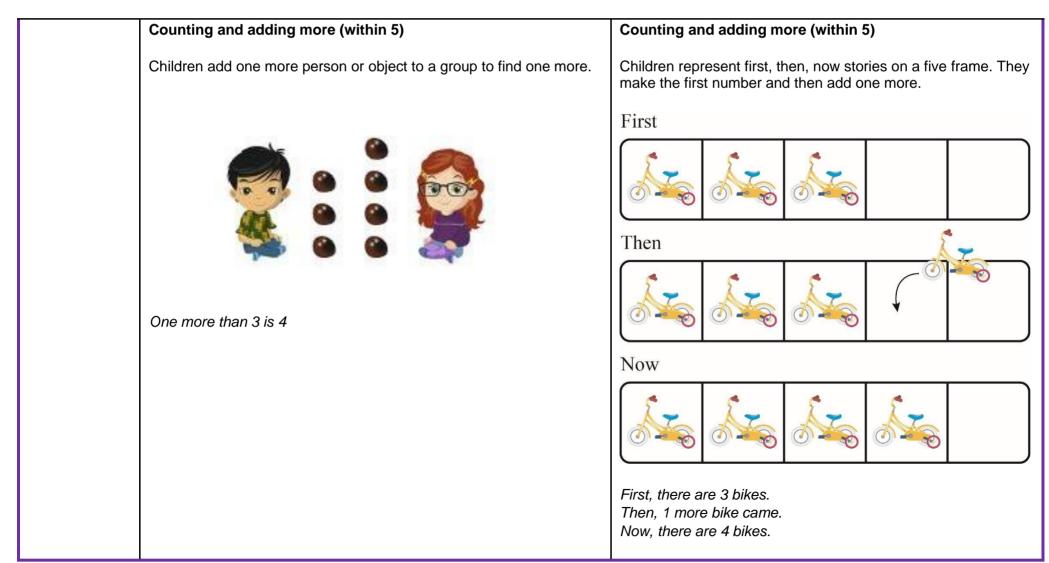
Key language: whole, part, ones, ten, tens, number bond, add, addition, plus, total, altogether, subtract, subtraction, find the difference, take away, minus, less, more, group, share, equal, equals, is equal to, groups, equal groups, divide, share, shared equally

Addition:	Subtraction:	Multiplication and Division:
Children start to explore addition by sorting groups. They then use sorting to develop their understanding of parts and wholes.	Children start to explore subtraction by sorting groups. They use sorting to develop their understanding of parts and wholes.	Children first start to look at the idea of equal groups through their exploration of doubles. They use five frames and objects to check that groups are equal.
Children combine groups to find the whole, using a part-whole model to support their thinking. They also use the part-whole model to find number bonds within and to 10.	When comparing groups, children use the language more than and fewer than. This will lead to finding the difference when they move into KS1.	Children then explore halving numbers by making 2 equal groups. They highlight patterns between doubling and halving seeing that double 2 is 4 and half of 4 is 2.
Using a five frame and ten frame, children add by counting on. They start by finding one more before adding larger numbers using counters or cubes on the frames.	Children then connect subtraction with the idea of counting back and finding one less using a five frame to support their thinking.	As well as halving, children also explore sharing into more than 2 equal groups. They share objects 1 by 1, ensuring that each group has an equal share.
Children use a number track to add by counting on. Linking this learning to playing board games is an effective way to support children's addition.	They explore subtraction by partitioning numbers, developing their understanding of parts and wholes. This links to their developing recall of number bonds.	
	Children count back within 20 using number tracks and ten frames to see the effect of taking away.	

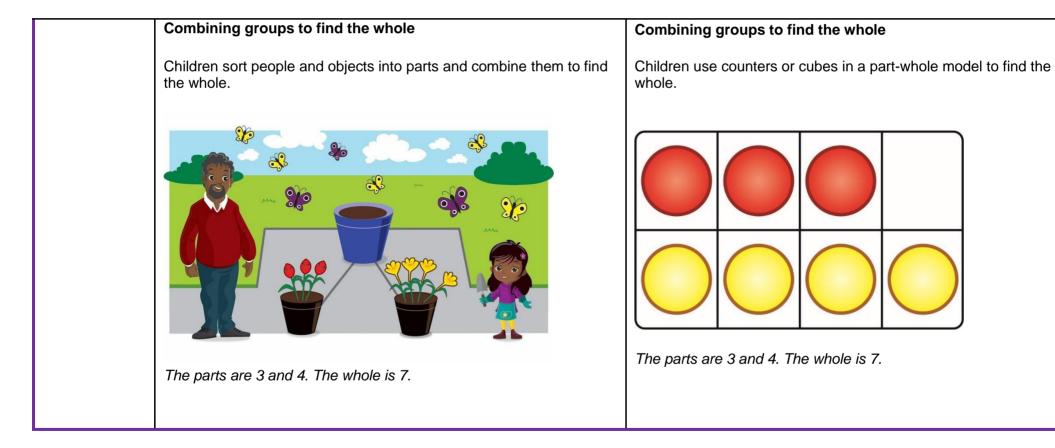


	Reception		
	Real-life representation	Other representations	
Addition	Sorting groups		
	Children sort everyday objects into groups.		

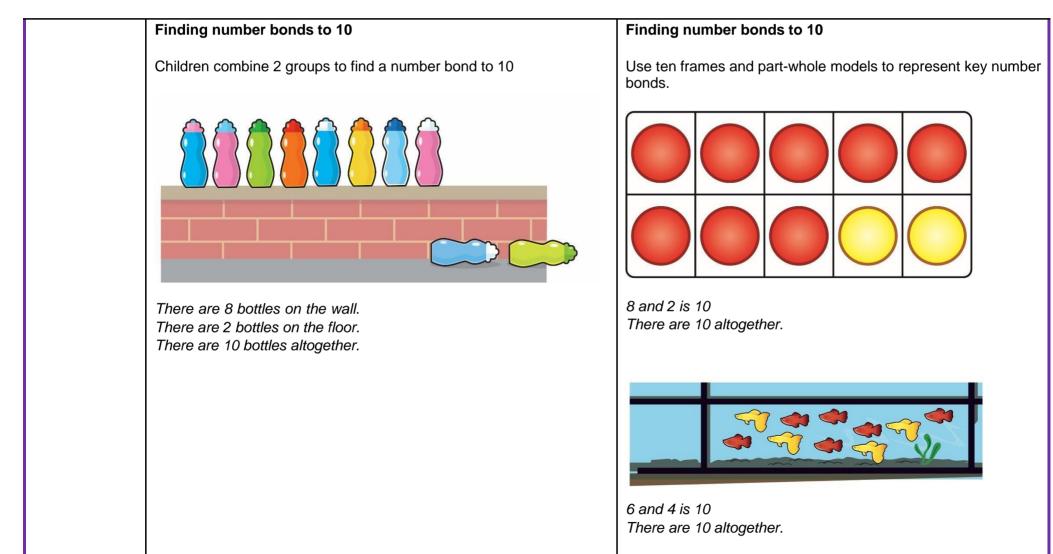




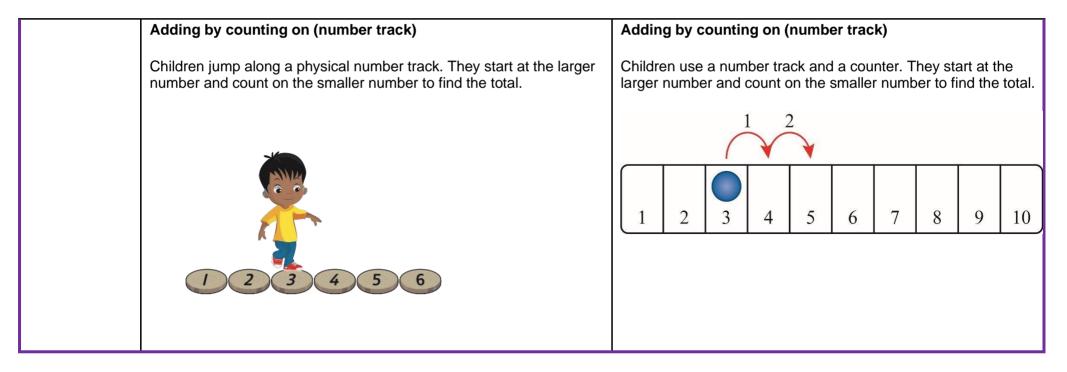












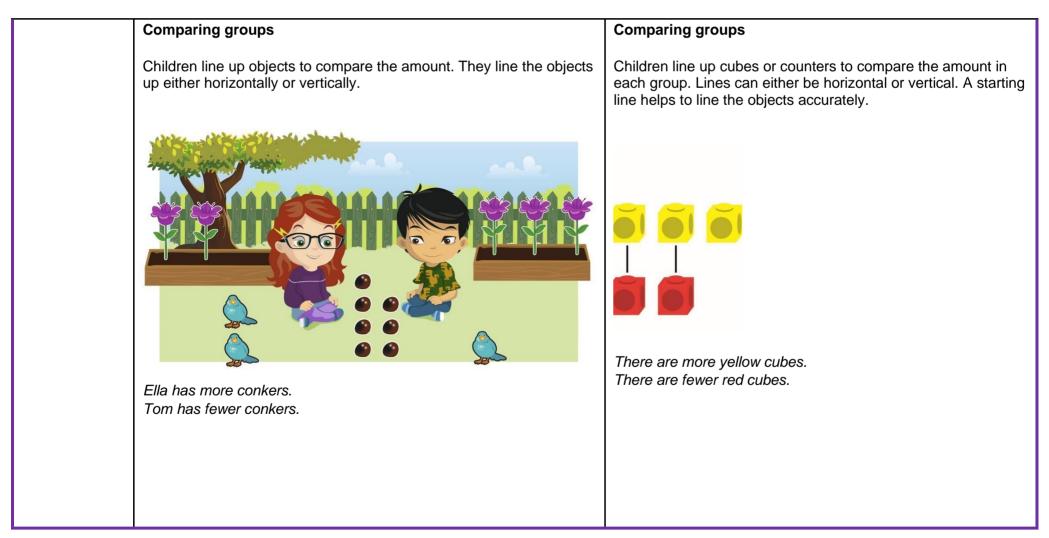


## Adding by counting on (ten frames) Children find the total number by counting on from the larger number. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. They can use counters, cubes or other objects on the ten frames. Children make the larger number, counting on to find the total. Children make the larger number, counting on to find the total. Children make the larger number, counting on to find the total. Children make the larger number, counting on to find the total. Children make the larger number, counting on to find the total. Children make the larger number, counting on the ten frames. Children make the larger number, counting on the ten frames. Children make the larger number, counting on the ten frames. Children make the larger number, counting on the ten frames. Children make the larger number, counting on the ten frames. Children make the larger number, counting on the ten frames. Children make the larger number of the total. Children make the larger number, counting on the ten frames. Children make the larger number of the total. Children make the larger number of the total. Children make the larger number of the total number of the total number of the total number of the total number of the tot

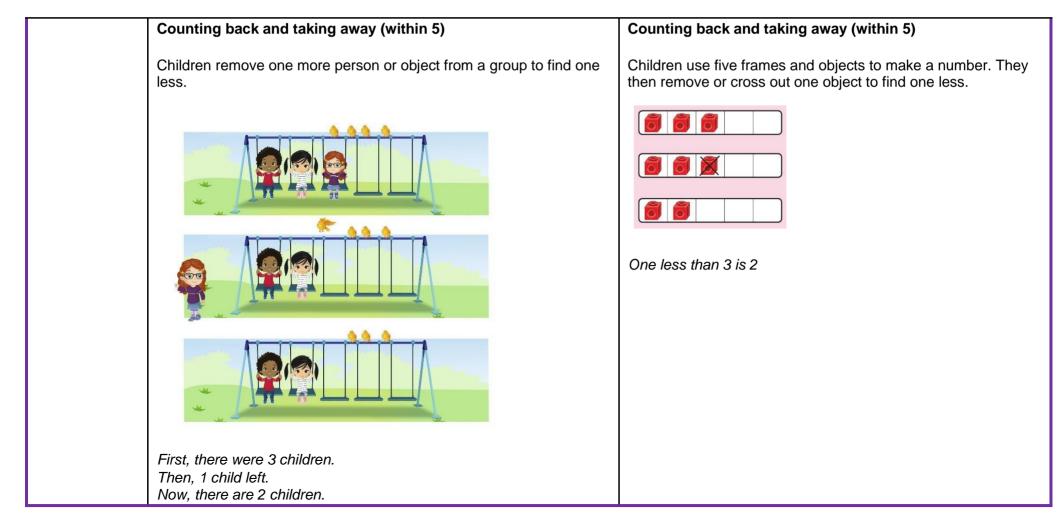


Subtraction	Sorting groups	
	Children sort everyday objects into groups.	

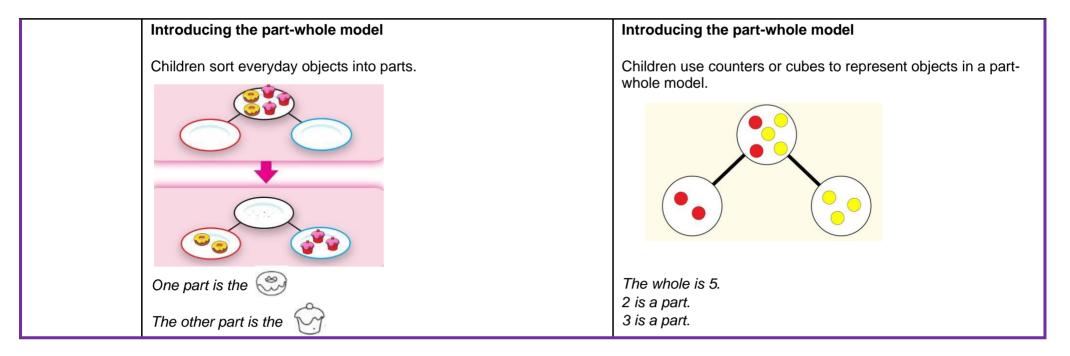




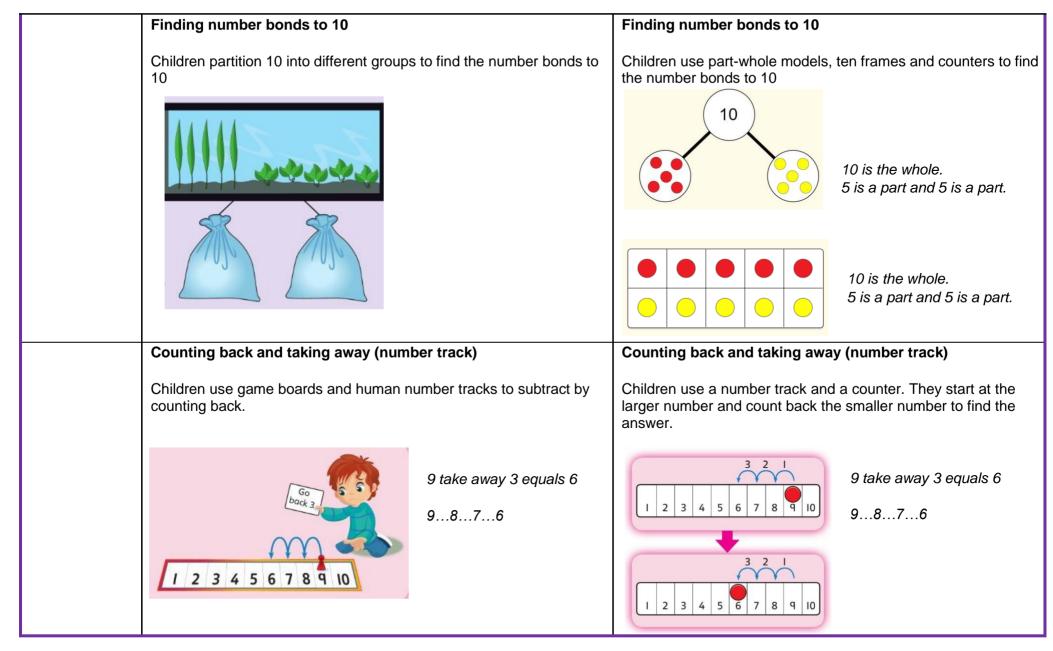












Power Maths © Pearson 2020

Copying permitted for purchasing institution only. This material is not copyright free. Pearson is not responsible for the quality, accuracy or fitness for purpose of the materials contained in the Word files once edited.



	Counting back and taking away (ten frames)	Counting back and taking away (ten frames)
	Children count backwards to find one less with numbers up to 20	Children remove counters from ten frames to support in counting back with numbers up to 20.
	One less than 16 is 15	Image: Constraint of the second state   Image: Constraint of the second state <td< th=""></td<>
Multiplication	Making doubles	Making doubles
	Children explore doubles in their environment including in games such as on dominoes or dice. They focus on the understanding of doubles being 2 equal groups.	Children use five frames to find doubles by lining up counters or cubes.
		Double 4 is 8
	Double 4 is 8 Double 2 is 4	
	Double 3 is 6	

Power Maths © Pearson 2020 Copying permitted for purchasing institution only. This material is not copyright free. Pearson is not responsible for the quality, accuracy or fitness for purpose of the materials contained in the Word files once edited.



