

Bilston Church of England Primary School

Hand in hand towards faith and high achievements



EYFS Calculation Policy

Our Vision

'Hand in hand together with faith we will strive to achieve all things'

'I am able to do all things through him (Jesus) who strengthens me'

Philippians 4:13

Approved by Governors at:	
Date approved:	
Review date:	
Chair of committee:	

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Power Maths calculation policy Reception

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Curriculum Leader- M Johnson



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.

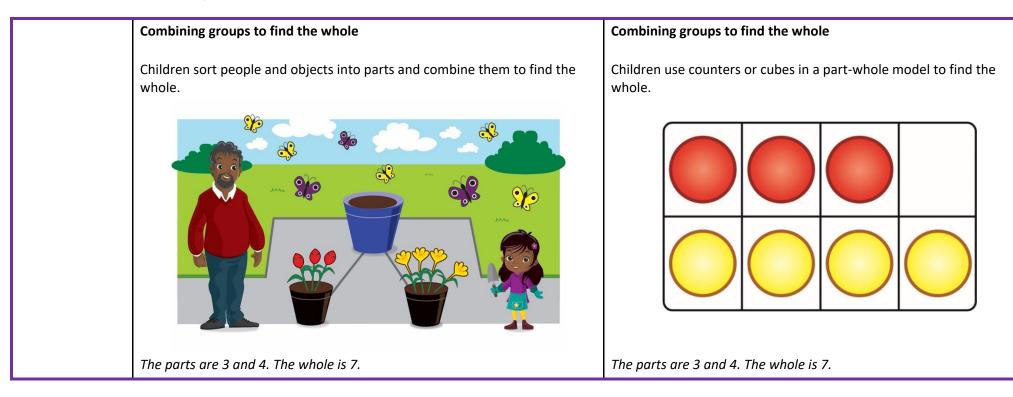
Key language: count, forwards, backwards, whole, part, recombine, break apart, ones, ten, tens, number bond, add, adding together, addition, plus, total, altogether, first, then, now, subtract, subtraction, find the difference, take away, minus, left, less, more, fewer, group, share, equal, equals, is 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 two 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 two equal groups. They share objects one by one, ensuring that each group has an equal share.
Children use a number track to add by counting on.	They explore subtraction by breaking apart a whole to find a missing part. This links to their developing recall of number bonds.	
Linking this learning to playing board games is an effective way to support children's addition.	Children count back within 20 using number tracks and ten frames to see the effect of taking away.	

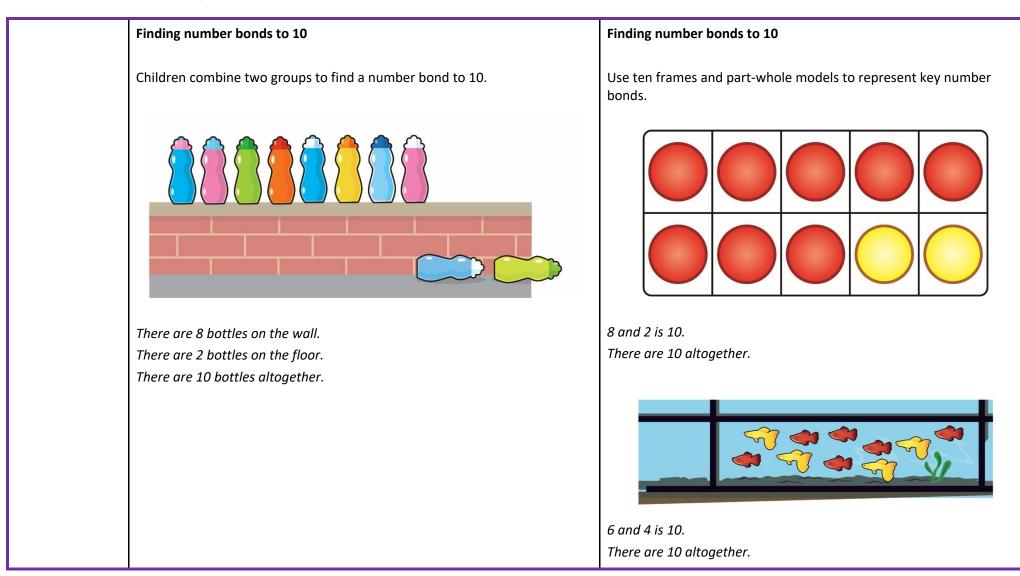


	Reception	
	Real-life representation	Other representations
Addition	Counting and adding more (within 5)	Counting and adding more (within 5)
	Children add one more person or object to a group to find one more.	Children represent first, then, now stories on a five frame. They make the first number and then add one more.
	One more than 3 is 4.	First
		Now
		First, there are 3 bikes. Then, 1 more bike came. Now, there are 4 bikes.





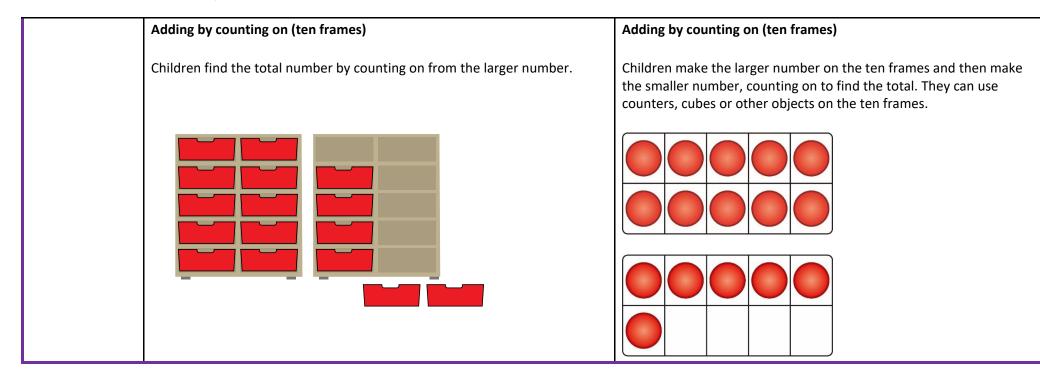






Adding by counting on (number track) Adding by counting on (number track) Children jump along a physical number track. They start at the larger number and count on the smaller number to find the total. Children use a number track and a counter. They start at the larger number and count on the smaller number to find the total. Image: track and the smaller number to find the total. Image: track and the smaller number to find the total. Image: track and the smaller number to find the total. Image: track and the smaller number to find the total. Image: track and the smaller number to find the total. Image: track and the total. Image: track and the smaller number to find the total. Image: track and the total. Image: track and the smaller number to find the total. Image: track and the total. Image: track and the total and the total. Image: track and the total. Image: track and the total and track and the total. Image: track and the total. Image: track and the total and track and the total. Image: track and the total. Image: track and track and track and the total. Image: track and the total. Image: track and track and track and track and the total. Image: track and the total. Image: track and t

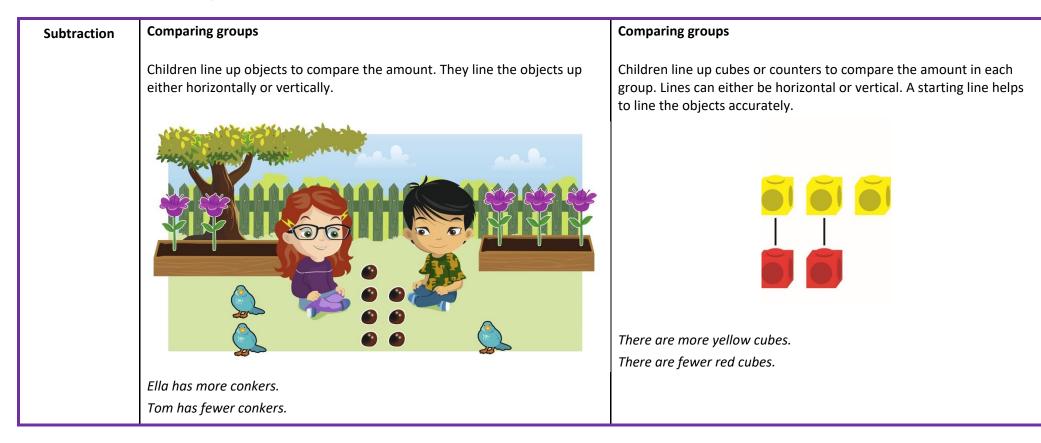




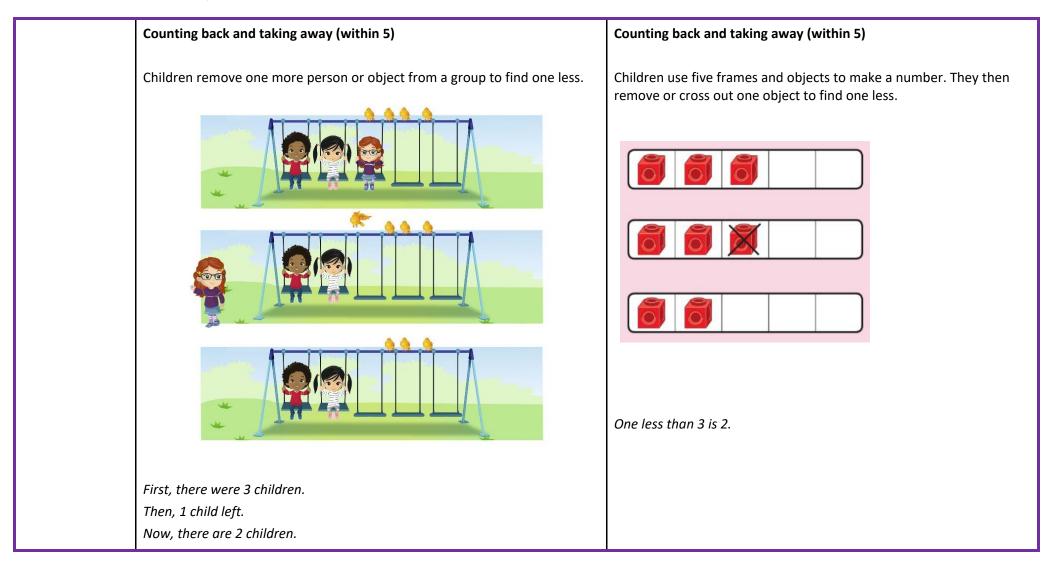


Sorting groups (optional)	
Children sort everyday objects into groups.	

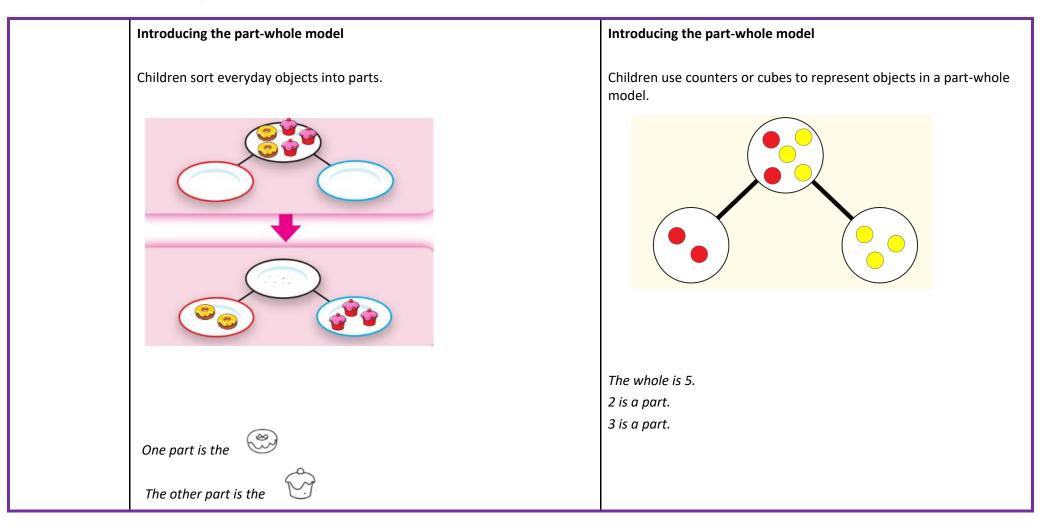




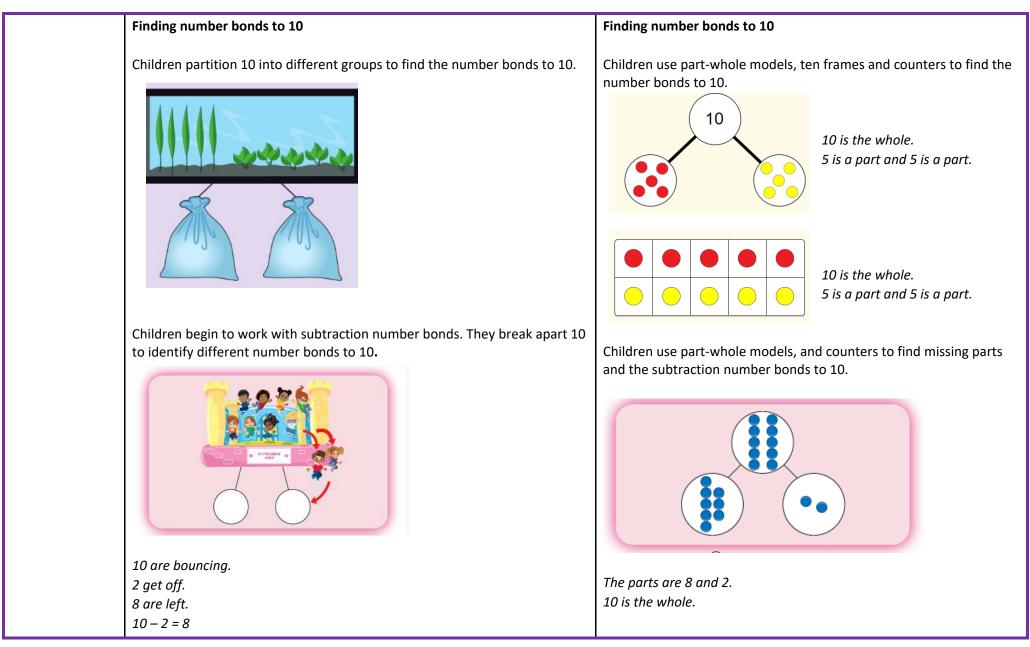








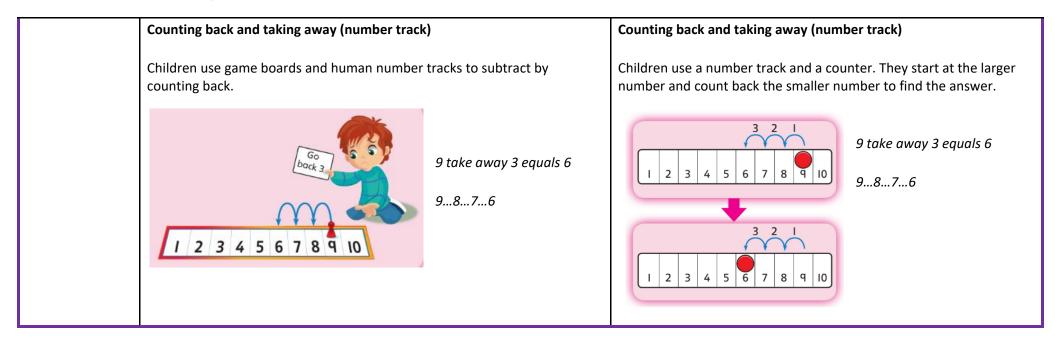




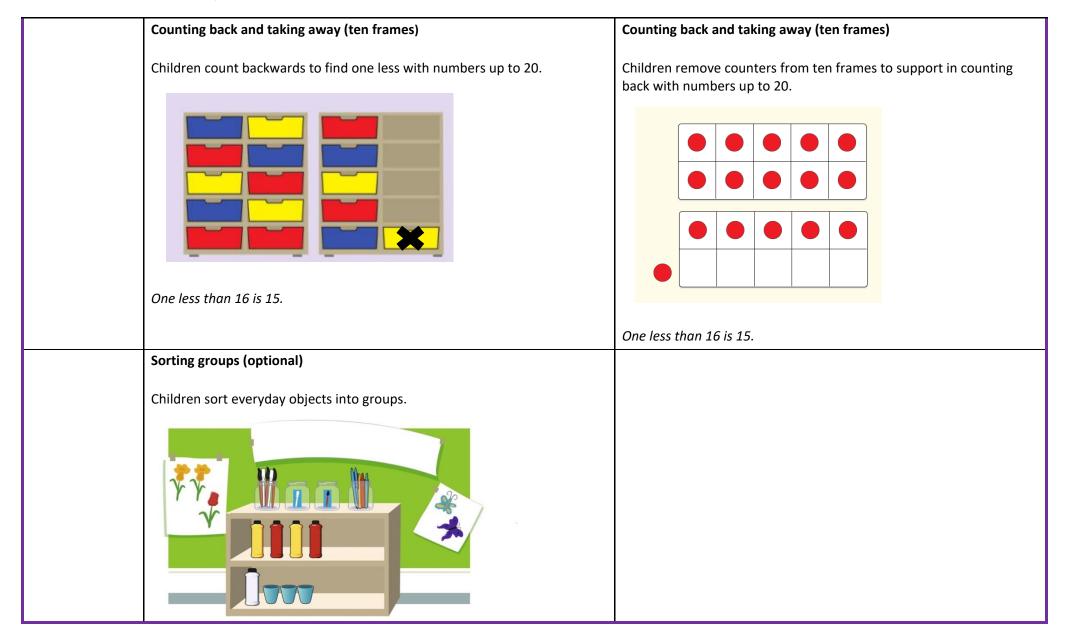
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Multiplication	Making doubles	Making doubles
	Children explore doubles in their environment including in games such as on dominoes or dice. They focus on the understanding of doubles being 2 equal groups.	Children use five frames to find doubles by lining up counters or cubes.
	Double 4 is 8. Double 2 is 4. Double 3 is 6.	Double 4 is 8.



Division	Halving and sharing	Halving and sharing
Children explore halving and sharing through practical sharing using real life scenarios including sharing fruit or classroom equipment.		Children use five frames to share amounts fairly and to check that the groups are equal. They share the counters/cubes one by one.
	Half of 8 is 4.	
		Half of 6 is 3.