Brandesburton Primary School Calculation Policy

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S. Contraction of the Contractio	dary Sc	TO THE PARTY OF TH

Objective & Strategy	Concrete	Pictorial	Abstract
Combining two parts to make a whole: part- whole model	Use part part whole model. Use cubes to add two numbers together as a group or in a bar.	January 2 Balis S Balis 2 Balis 2 Balis 3 Balis 2 Balis 3 Balis 2 Balis 4 Balis 2 Balis 3 Balis 4 Balis 5 Directures to add two numbers together as a group or in a bar.	4 + 3 = 7 Use the part-part whole diagram as shown above to move into the abstract.
Starting at the big- ger number and counting on	Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer.	12 + 5 = 17 10 11 12 13 14 15 16 17 18 19 20 Start at the larger number on the number line and count on in ones or in one jump to find the answer.	5 + 12 = 17 Place the larger number in your head and count on the smaller number to find your answer.
Regrouping to make 10. This is an essential skill for column addition later.	Start with the bigger number and use the smaller number to make 10. Use ten frames.	3 + 9 = Use pictures or a number line. Regroup or partition the smaller number using the part part whole model to make 10. $9 + 5 = 14$ 11	7 + 4= 11 If I am at seven, how many more do I need to make 10. How many more do I add on now?
Represent & use number bonds and related subtraction facts within 20	2 more than 5.	Dinv E more hals 5 + 2 =	Emphasis should be on the language '1 more than 5 is equal to 6.' '2 more than 5 is 7.' '8 is 3 more than 5.'

Objective &	Concrete	Pictorial	Abstract
Strategy			
Adding multiples of	50= 30 = 20		20 + 30 = 50
ten	11111		70 = 50 + 20
		3 tens + 5 tens = tens 30 + 50 =	40 + □ = 60
	Model using dienes and bead strings	Use representations for base ten.	
Use known number facts	Children explore ways of making num-	20	1 + 1 = 16
Part part whole	bers within 20	+ = 20 20 - = + = 20 20 - =	
Using known facts		∵ + ⊹ = ♣	3 + 4 = 7
		1(+ =	leads to
			30 + 40 = 70
	_	• •• •••	leads to
		Children draw representations of H,T and O	300 + 400 = 700
Bar model		高高高高高高 高 高 高	23 25
			?
	3 + 4 = 7	7 + 3 = 10	23 + 25 = 48

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