

Calculations Policy – Addition

Year	Skill	Concrete examples	Pictorial examples	Abstract examples
1	Add two 1-digit numbers up to 10.	Use cubes to add two numbers together as a group or in a bar.	Use pictures to add two numbers together as a group or in a bar. 8 1 Whole 2 Balls 2 Balls	5 + 3 = 8 8 = 5 + 3 Include missing number questions: 5 + ? = 8 8 = ? = 3
1	Add 1 and 2-digit numbers up to 20.	Use Numicon to add two numbers together. Important to show regrouping of ten ones equalling 10. Use a bead string to count on to find the answer.	Use tens frames and number lines to count on. Start at the bigger number and count on. +2 +5 Use part whole models and bar models.	8 + 7 = 15 8 + 7 = 15 I am at 7, how many more do I need to make 15?

2	Add three 1-digit numbers.	Use of Numicon or Base 10 to look for number bonds to ten.	Use of part whole model and tens frames. Regrouping to make 10.	7 + 6 + 3 = 16 Looking for number bonds to ten. $7 + 6 + 3 = 16$ 10 Counting on in equal steps. $4 + 4 + 4 +$
2	Add 1 and 2-digit numbers to 100.	Encourage regrouping of ten ones to make 10. Use bead strings and Base 10 to add multiples of ten.	Use part whole and number lines to model. 17+5=22 16+7 20 16+7 20 22 23	23 + 25 = 48 Explore related facts: 17 + 5 = 22 5 + 17 = 22 22 - 5 = 17 22 - 17 = 5 Use knowledge of doubles to solve near doubles: Find 24 + 25 by knowing double 24 + 1
2	Add two 2-digit numbers.	Model using Base 10 or place value counters. 25 + 47	Use a number line and bridge ten using part whole if necessary. Or +20 +5 Or +20 +3 +2 47 67 70 72	Use partitioning and start to show column method where appropriate. $ \begin{array}{cccccccccccccccccccccccccccccccccc$



