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.	3 yurt yur	4 + 3 = 7 5 3 $10 = 6 + 4$ 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 num- ber 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.	6+5=11 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. $9 + 5 = 14$	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.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	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 ten	50= 30 = 20	a tons + 5 tons = tons 30 + 50 = Use representations for base ten.	20 + 30 = 50 70 = 50 + 20 40 + □ = 60
Use known number facts Part part whole	20 Children ex- plore ways of making num- bers within 20	20 + = 20 20 - = + = 20 20 - = + = 20 20 - =	☐ + 1 = 16 16 − 1 = 1 + ☐ = 16 16 − ☐ = 1
Using known facts		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 + 4 = 7 leads to 30 + 40 = 70 leads to 300 + 400 = 700
Bar model		7 + 3 = 10	23 25 ? 23 + 25 = 48

Objective &	Concrete	Pictorial	Abstract	\
Strategy				V 7
Add a two digit number and ones	17 + 5 = 22 Use ten frame to make 'magic ten Children explore the pattern. 17 + 5 = 22 27 + 5 = 32	Use part part whole and number line to model. 17 + 5 = 22 3 (2) 16 + 7 16 = 20 (2) 16 = 20 (2)	17 + 5 = 22 Explore related facts $17 + 5 = 22$ $5 + 17 = 22$ $22 - 17 = 5$ $17 - 5$ $22 - 5 = 17$	
Add a 2 digit num- ber and tens	25 + 10 = 35 Explore that the ones digit does not change	27 + 30 +10 +10 +10 	27 + 10 = 37 27 + 20 = 47 27 + □ = 57	
Add two 2-digit numbers	Model using dienes , place value counters and numicon	+20 +5 Or +20 +3 +2 47 67 72 47 67 70 $72Use number line and bridge ten using partwhole if necessary.$	25 + 47 $20 + 5$ $40 + 7$ $20 + 40 = 60$ $5 + 7 = 12$ $60 + 12 = 72$	
Add three 1-digit numbers	Combine to make 10 first if possible, or bridge 10 then add third digit	Regroup and draw representation. = 15	4 + 7 + 6 = 10 + 7 $= 17$ Combine the two numbers that make/bridge ten then add on the third.	



