Domain: Addition and Subtraction

Achievement	Number and Algebra: Level One	
		CA
Objectives	Number Strategies:	CA
•	 Use a range of counting, grouping, and equal-sharing strategies with whole numbers and fractions 	
	Number Knowledge:	AC
	Know the forward and backward counting sequences of whole numbers to 100.	
	Know the groupings with five, within ten, and with ten.	EA
	Equations and Expressions:	
	Communicate and explain counting, grouping, and equal-sharing strategies, using words, numbers and pictures.	AA
	Patterns and Relationships:	
	Generalise that the next counting number gives the result of adding one object to a set and that counting the	AM
	number of objects in a set tells how many.	

Key Teaching Ideas	Problem progression	References	Knowledge being developed	Resources
Numbers can be added by counting on from the largest number in increments of one. (Key Idea #1)	9 + 2 = \Box , 8 + 4 = \Box , 14 + 3 = \Box , 25 + 4 = \Box , 99 + 5 = \Box , 77 + 4 = \Box , 8 + \Box = 11, 15 + \Box = 19, 67 + \Box = 72, 89 + \Box = 96 14 is how many more than 8? 33 is how many more than 27? 74 is how many more than 69?	Teaching Addition, Subtraction, and Place Value (Book 5) Number Tiles (29) The Number Strip (30) The Bears' Picnic (31) Change Unknown (31) BSM Can You Count On? 6-3-2 (7) Taking a Group and Counting On 9-3-57 (124) 7-1-53, 9-1-11, 9-1-49, 10-1- 7, 10-1-49, 10-1-50, 10-1-51	Identify all of the numbers in the range 0– 100 at least.	Teaching Number Knowledge (Book 4) Number Mat and Lily Pads (2) "Teen" and "Ty" Numbers (3) Number Hangman (5) BSM 8-1-45, 8-1-81, 9-1-4, 9-1-5, 9-1-6, 9-1-42, 9-1-82, 12-1-1

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Key Teaching Ideas	Problem progression	References	Knowledge being developed	Resources
Numbers can be subtracted by counting back from the	12 - 3 = □, 14 - 5 = □, 23 - 4 = □, 41 - 2 = □,	Teaching Addition, Subtraction, and Place	Say the forwards and backwards number word	Teaching Number Knowledge (Book 4)
largest number in increments of one.		Value (Book 5) Counting Back (32)	sequences in the range 0–100, at least,	Number Fans (4) Counting (11)
(Key Idea #2)	67 - □ = 58, 94 - □ = 89 16 is how many less than 21?	BSM	connecting that the result of adding or taking	Lucky Dip (13) Using Calculators (14)
	39 is how many less than 43?74 is how many less than 80?		one more/less object to a set is given by the	Hundreds Boards and Thousands Book (16)
		9-3-57,9-3-58, 9-3-59, 9- 3-85, 10-1-8, 10-1-52, 10-1-53	next/previous counting number.	BSM 9-1-4, 9-1-42, 9-3-9
Objects can be counted by creating bundles of ten. (Key Idea #3)	$40 + 20 = \Box, 70 - 50 = \Box,$ $60 + 30 = \Box, 90 - 20 = \Box,$ $42 + 30 = \Box, 75 - 20 = \Box,$ $54 - \Box = 24, 27 + \Box = 57,$ $36 + \Box = 76, 94 - \Box = 54$	Teaching Addition, Subtraction, and Place Value (Book 5) Ones and Tens (33)	Order numbers in the range 0–100, at least.	Teaching Number Knowledge (Book 4) Card Ordering (12) Arrow Cards (13) Rocket- Where Will I Fit (15) Number Line Flips (15) Squeeze – Guess My Number (15) Bead Strings (17) Who is the Richest? (18) Figure It Out N 2-3 (1) Happy Hundreds BSM
				9-3-51, 9-3-52, 10-1-4, 11-1-4, 11-1- 5, 11-1-43, 11-1-44, 11-1-45, 11-1-46, 11-3-6, 11-3-7, 11-3-46, 11-3-47, 11-3-48, 11-3-83

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Key Teaching Ideas	Problem	References	Knowledge being	Resources
	progression		developed	
Groups of ten can be added	3 tens + 1 ten	Teaching Addition,	Recall the facts to ten,	Teaching Number Knowledge (Book 4
and subtracted by using	5 tens – 2 tens	Subtraction, and Place Value	and the teen facts,	<u>Up to Ten</u> (32)
simple addition facts	50 + 30	(Book 5)	e.g. 3 + 7 = 10, 10 - 6 =	Tens Frames Again (34)
(Key Idea #4)	40 – 20	Ten Stickers Per Packet (34)	4, 10 + 8 = 18.	Using Tens Frames to Describe
	48 - 20	Adding Tens (35)		Patterns to Ten (34)
	84 + 10	Subtracting Tens (35)		Addition Flash Cards (37)
	76 - 30			
				BSM
				9-1-9, 9-1-10, 9-1-47, 9-1-48, 9-3-11,
				9-3-12, 9-3-54, 10-1-3, 10-3-46,
				11-3-8, 11-3-9,
				11-3-49, 11-3-50, 11-3-51
Addition is commutative, so	3 + 11 = 11 + 3	Teaching Addition,	Recall the doubles to	Teaching Number Knowledge (Book 4
the order of the numbers can	4 + 23 = 23 + 4	Subtraction, and Place Value	20, e.g. 7 + 7 = 14.	Double Trouble (32)
be rearranged to make	3 + 21 + 2 = 3 + 2 + 21	(Book 5)		
counting on easier	2 + 94 = 94 + 2	The Bigger Number First (36)		Figure It Out
(Key Idea #5)				N 2.2 <u>Helping Hands</u> (3)
. , , ,				
				BSM
				10-1-6, 10-1-47, 10-1-48, 10-1-83

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Domain: Addition and Subtraction

Transition. Moving from counting All to Advanced Counting Domain. Addition and Subtraction		
Knowledge being developed	Resources	
Recall the number of tens within decades	Teaching Number Knowledge (Book 4)	CA
	<u>Zap</u> (26)	
	<u>Number Boggle</u> (33)	AC
		EA
	Figure It Out	
	N 2.2 <u>Flexible Fingers</u> (8)	AA
	BF 2-3 <u>One Liner</u> (1) BF 2-3 Fizzing It Up (5)	
	$BF Z^{-S} \frac{F I Z I I g I I O p}{I S}$	AM
	BSM	
	9-1-9, 9-1-10, 9-1-47, 9-1-48, 10-1-5, 10-1-45, 10-1-46, 11-1-12	AP
Recall the decades that add to 100,	BSM	
e.g. 60 + 40 = 100.	9-3-8, 9-3-49, 9-3-50	