Planning Guide Advanced Counting to Early Additive

Addition and Subtraction

E CA AC EA AA AM AP

Strategy	Numeracy Book Reference	Unit in this book	pages
Solve addition and subtraction problems.	Teaching Addition and Subtraction (Book 5)	1-Adding and subtracting review	16 to 19
	Number Tiles The Number Strip	We are learning to solve addition and subtraction problems.	
	The Bears' Picnic Frog Jumps The Bigger Number First	Note This unit revises all of the addition and subtraction	
	Change Unknown Counting Back	strategies covered in units 1 to 10 from the New Zealand	
	Adding Tens Subtracting Tens	Curriculum Mathematics Stage 4 Advanced Counting book.	
Identify all of the numbers in the range	No specific Numeracy Book reference	2-Understanding place value	20 to 27
0 – 1000. (Number Identification)		We are learning to understand place value.	
Solve addition and subtraction problems with groups of ten,	Teaching Addition and Subtraction (Book 5)	3-Adding ones and tens	28 to 33
using place value materials, e.g. 30 + 20 = 50,	Adding Ones and Tens	We are learning to add two-digit numbers where the sum of the ones digits is less than 10.	
63 - 30 = 33, 64 - 32 = 32		4-Subtracting ones and tens	34 to 41
	Subtracting Ones and Tens	We are learning to subtract two-digit numbers.	
		5-What's missing?	42 to 47
	The Missing Ones and Tens	We are learning to solve problems like $45 + \square = 67$, which do not involve renaming.	.,
		6-Left, right, up and down	48 to 55
	The Thousands Book	We are learning to add and subtract ones and tens by moving left, right, up and down on charts with numbers up to 1000.	33

Strategy	Numeracy Book Reference	Unit in this book	pages
Solve addition and subtraction problems by working from doubles.	No specific Numeracy Book reference	7-Near doubles We are learning to solve addition and subtraction problems using near doubles.	56 to 59
Solve addition problems by looking for compatible numbers that add to ten, other decades or one hundred.	Teaching Addition and Subtraction (Book 5) Make Ten	8-Adding to make ten We are learning to add three or more numbers by first making pairs that add up to 10.	60 to 63
Solve addition and subtraction problems.	Teaching Addition and Subtraction (Book 5) Adding Ones and Tens Subtracting Ones and Tens The Missing Ones and Tens The Thousands Book Make Ten	9-Adding and subtracting practice 1 We are learning to solve addition and subtraction problems. Note This unit revises all of the addition and subtraction strategies covered in units 3 to 8.	64 to 71
Solve subtraction problems by going back through tens.	Teaching Addition and Subtraction (Book 5) Subtraction in Parts	10-Subtracting in parts We are learning to subtract by splitting numbers into parts instead of counting down.	72 to 77
Solve addition problems by going up through tens.	Teaching Addition and Subtraction (Book 5) Adding in Parts	11-Adding in parts We are learning to add by splitting numbers into parts.	78 to 83
Solve addition problems by going up through tens.	Teaching Addition and Subtraction (Book 5) Up over the Tens	12-Adding by going up through ten We are learning to add by splitting numbers into parts to make tens.	84 to 87
Solve addition problems by combining tens and ones.	Teaching Addition and Subtraction (Book 5) Adding Tens Adding Ones and Tens Missing Ones and Tens The Thousands Book	13-Adding by splitting tens and ones We are learning to add by adding the ones and tens separately.	88 to 91

Strategy	Numeracy Book Reference	Unit in this book	pages
Solve addition problems by making a tidy number.	No specific Numeracy Book reference	14-Adding using tidy numbers We are learning to add using tidy numbers.	92 to 97
Solve addition and subtraction problems.	Teaching Addition and Subtraction (Book 5)	15-Adding and subtracting practice 2	98 to 105
	Adding Ones and Tens Subtracting Ones and Tens	We are learning to solve addition and subtraction problems.	
	The Missing Ones and Tens The Thousands Book Make Ten Subtraction in Parts Adding in Parts Up over the Tens	Note This unit revises all of the addition and subtraction strategies covered in units 3 to 14.	

Multiplication and Division

Strategy	Numeracy Book Reference	Unit in this book	Pages
Solve multiplication problems using repeated addition.	Teaching Multiplication and Division (Book 6)	16-Understanding mutliplication	106 to 115
Solve multiplication problems using skip counting in 2s, 5s and 10s.	Introduction Numbers Strips Twos, Fives and Tens	We are learning that skip counting and repeated addition are the same as multiplying.	
Solve division problems by equal sharing in ones, twos	Teaching Multiplication and Division (Book 6)	17-Understanding division	116 to 125
and fives	Twos, Fives and Tens Pirate Crews	We are learning to solve division problems by equal sharing in ones, twos and fives.	
Solve multiplication problems by doubling.	Teaching Multiplication and Division (Book 6)	18-Tens, fives and twos	126 to 131
	Twos, Fives and Tens	We are learning to use doubling to solve some multiplication problems.	
Solve multiplication problems using ways	Teaching Multiplication and Division (Book 6)	19-More multiplying	132 to 139
other than repeated addition.	Animal Arrays	We are learning to multiply using ways other than skip counting.	
Use the commutative property.		7	

Strategy	Numeracy Book Reference	Unit in this book	Pages
Solve problems using two, five and ten times tables (and learn	Teaching Multiplication and Division (Book 6)	20-Multiplying and dividing practice	140 to 149
them).	Number Strips Animal Arrays Twos, Fives and Tens	We are learning our two, five and ten times facts.	
	Pirate Crews	Note This unit revises all of the multiplication strategies covered in units 16 to 19.	

Ratios and Proportions

Strategy	Numeracy Book Reference	Unit in this book	Pages
Find simple fractions of shapes and lengths starting with halves	Teaching Fractions, Decimals and Percentages (Book 7)	21-Fractions of shapes and lengths	150 to 159
and quarters, then moving to thirds, fifths and tenths.	Fair Shares	We are learning to find halves, quarters and other fractions of shapes.	
Find a fraction of a number by sharing out the objects equally,	Teaching Fractions, Decimals and Percentages (Book 7)	22-Fractions of sets	160 to 169
moving towards anticipating the sharing by imaging or skip counting. Emphasis on halves, quarters, eighths, thirds and fifths. Find a unit fraction of a set using addition facts, doubles, e.g. ¼ of	Fair Shares Animals Hungry Birds	We are learning to use basic facts to work out fractions of a set.	
16 using ½ of 16 is 8. Order fractions visually using materials.	Teaching Fractions, Decimals and Percentages (Book 7)	23-Ordering fractions	170 to 175
	Fraction Circles	We are learning to order unit fractions.	

Algebraic Thinking

Strategy	Numeracy Book Reference	Unit in this book	Pages
Continue a picture pattern and work out the rule for finding the next picture in the	Teaching Number through Measurement, Geometry, Algebra and Statistics (Book 9)	24-Picture patterns	176 to 183
sequence.	Thinking Ahead Sticky Moments	We are learning how to carry on picture patterns and use number strategies to think ahead.	
Continue a number pattern and work out the rule for finding the next number in the sequence.	No specific Numeracy Book reference	25-Number patterns We are learning how to continue a number pattern.	184 to 187
Understand what the equals symbol means and solve simple equations.	Teaching Number through Measurement, Geometry, Algebra and Statistics (Book 9)	26-Equal or not?	188 to 197
-	Numbers at Work	We are learning what equals means and how to solve simple equations.	

Number Knowledge

Knowledge being developed	Resources	Number Knowledge unit in this book	pages
Identify all of the numbers in the range 0 to 1000. (Number Identification)	Teaching Number Knowledge (Book 4) 'Teen' and 'Ty' Numbers Number Fans Place Value Houses Number Hangman	Number Knowledge unit A Reading and writing whole numbers up to 1000	198 and 199
Know the number of tens in decades. Know the groupings of ten that can be made from a three-digit number. (Grouping/Place Value)	Teaching Number Knowledge (Book 4) Slavonic Abacus Tens and Ones	Number Knowledge unit B How many tens and ones?	200 to 203
Recall groupings of two that are in numbers up to 20. (Grouping/Place Value)	Teaching Number Knowledge (Book 4) Counting Skip-counting on the Number Line Beep	Number Knowledge unit C Groups of two	204 and 205

Strategy	Numeracy Book Reference	Unit in this book	Pages
Recall groupings of five that are in numbers up to 50. (Grouping/Place Value)	Teaching Number Knowledge (Book 4) Counting Beep Fabulous Fives	Number Knowledge unit D Groups of five	206 and 207
Order whole numbers in the range 0 to 1000. (Number Sequence and Order)	Teaching Number Knowledge (Book 4) Counting Card Ordering Arrow Cards Rocket – Where Will It Fit? Number Line Flips	Number Knowledge unit E Ordering numbers up to 1000	208 to 213
Say the number 1 before and after a given number in the range 0 – 1000. (Number Sequence and Order)	Teaching Number Knowledge (Book 4) Counting Lucky Dip Hundreds Boards and Thousands Book	Number Knowledge unit F What comes 1 before or after?	214 and 215
Say the number 10 or 100 before and after a given number in the range 0 – 1000. (Number Sequence and Order)	Teaching Number Knowledge (Book 4) Counting Lucky Dip Hundreds Boards and Thousands Book	Number Knowledge unit G What comes 10 or 100 before or after?	216 and 217
Say the forwards and backwards skip counting sequences in the range 0 to 100 for twos, fours, fives and tens. (Number Sequence and Order)	Teaching Number Knowledge (Book 4) Skip-counting on the Number Line	Number Knowledge unit H Skip counting in twos, fours, fives and tens	218 to 225
Recall the addition facts to ten.	Teaching Number Knowledge (Book 4)	Number Knowledge unit I	226 to 229
Recall the groupings within 20, e.g. 12 and 8, 6 and 14. (Basic Facts)	Up to Ten Tens Frames Again Patterns to 10 Bridges	Addition and subtraction to and from a tidy number	

Strategy	Numeracy Book Reference	Unit in this book	Pages
Recall the doubles to 20 and corresponding halves, e.g. 7 + 7 = 14,	Teaching Number Knowledge (Book 4)	Number Knowledge unit J	230 and 231
½ of 14 = 7. (Basic Facts)	Double Trouble	Doubles and halves	
Recall the addition and subtraction facts to twenty.	Teaching Number Knowledge (Book 4)	Number Knowledge unit K	232 to 237
(Grouping/Place Value and Basic Facts)	Bridges Addition Flash Cards	Adding to 20	
Recall the decades that add to 100, e.g. 60 + 40 = 100	Teaching Number Knowledge (Book 4)	Number Knowledge unit L	238 and 239
(Grouping/Place Value)	Patterns to 10 Addition Flash Cards	Making hundreds with tens numbers	
Recall multiples of five groupings within a 100, e.g 45 + 55 = 100	Teaching Number Knowledge (Book 4)	Number Knowledge unit M	240 and 241
(Grouping/Place Value)	Tens Frames Again Patterns to 10 Bridges	Making 100 with fives numbers	
Recall the multiplication and division facts for 2.5	Teaching Number Knowledge (Book 4)	Number Knowledge unit N	242 to 251
division facts for 2, 5 and 10. (Basic Facts)	Skip-counting on the Number Line Double Trouble Bowl a Fact Multiplication Madness	Two, five and ten times tables	
Know how to make a family of facts given one	Teaching Number Knowledge (Book 4)	Number Knowledge unit O	252 and 253
addition, subtraction, multiplication or division fact.	Number Boggle Number Mats and Number Fans Multiplication Madness	Family of facts	233
Develop common vocabulary for fractions, particularly halves,	Teaching Number Knowledge (Book 4)	Number Knowledge unit P	254 to 258
quarters, thirds, fifths.	Fraction Pieces	Naming fractions	
Identify the symbols for halves, quarters, thirds, fifths and tenths. (Number Identification)			