Planning Guide Advanced Counting to Early Additive

E CA AC EA AA AM AP

Addition and Subtraction

Strategy	Numeracy Book reference	Unit in this book	pages
Solve addition and subtraction	No specific Numeracy Book reference	1 – Adding and subtracting near doubles	
problems by working from doubles.		We are learning to solve addition and subtraction problems where the numbers are easily related to near doubles.	24 to 27
Solve addition and subtraction	No specific Numeracy Book reference	2 – Adding and subtracting using fives facts	
problems by using groupings with five.		We are learning to solve addition and subtraction problems by using groupings with five.	28 to 31
Solve addition	Teaching Addition and Subtraction	3 – Adding to make ten	
problems by looking for compatible numbers that	(Book 5) Make Ten	We are learning to add three or more numbers by first making up pairs that add up to 10.	32 to 37
decades or one hundred.		4 – Adding and subtracting using compatible numbers	
	Compatible Numbers	We are learning to use compatible numbers to solve problems like 5 + 3 + 6 - 8 by first adding five and three to get eight then subtracting the eight.	38 to 41
Solve addition and subtraction	Teaching Addition and Subtraction (Book 5)	5 – Adding and subtracting practice 1	
problems.	Make Ten Compatible Numbers	We are learning to solve addition and subtraction problems using different strategies and our number knowledge.	42 to 47
		Note: This unit revises all of the addition and subtraction strategies covered in units 1 to 4 of this book.	

Strategy	Numeracy Book reference	Unit in this book	pages
Solve subtraction problems by going back through tens.	<i>Teaching Addition and Subtraction</i> <i>(Book 5)</i> Subtraction in Parts	6 – Subtracting in parts We are learning to subtract by splitting numbers into parts instead of counting down.	48 to 53
Solve addition problems by going up through tens.	<i>Teaching Addition and Subtraction</i> <i>(Book 5)</i> Adding in Parts	7 – Adding in parts We are learning to add by splitting numbers into parts.	54 to 59
	Up over the Tens	8 – Adding by going up through ten We are learning to add by splitting numbers into parts to make tens (adding through tens to solve problems like 37 + ? = 45).	60 to 65
Solve addition and subtraction problems by combining and separating tens and ones.	<i>Teaching Addition and Subtraction</i> <i>(Book 5)</i> Adding Tens Subtracting Tens Adding Ones and Tens Subtracting Ones and Tens Missing Ones and Tens The Thousands Book	9 – Adding using partitioning We are learning to add using partitioning (adding the ones and tens separately).	66 to 69
	Note: All of the above are units from Stage 4 AC.	10 – Subtracting using partitioning We are learning to subtract using partitioning (subtracting the ones and tens separately).	70 to 73
Solve addition and subtraction problems.	Teaching Addition and Subtraction (Book 5) Make Ten Compatible Numbers Subtraction in Parts Up over the Tens Adding in Parts	11 – Adding and subtracting practice 2 We are learning to solve addition and subtraction problems using different strategies and our number knowledge.	74 to 77
		Note: This unit revises all of the addition and subtraction strategies covered in units 1 to 10 of this book.	

Strategy	Numeracy Book reference	Unit in this book	pages
Solve addition problems by making a tidy number.	No specific Numeracy Book reference	12 – Adding using tidy numbers We are learning to add using tidy numbers.	78 to 81
Solve addition and subtraction problems using comparison.	Teaching Addition and Subtraction (Book 5) Comparisons More Comparisons	 13 – Adding and subtracting using comparisons We are learning to add and subtract using comparisons of sets without counting down or counting up. We are learning to add and subtract using comparisons of sets without comparisons of sets without 	82 to 84 85 to 87
Estimate the answers when adding and subtracting money.	No specific Numeracy Book reference	14 – Estimating answers when adding and subtracting money We are learning to estimate the answers when adding and subtracting money.	88 and 89
Understand that subtracting then adding the same number leaves the original number unchanged.	<i>Teaching Number Sense and</i> <i>Algebraic Thinking</i> <i>(Book 8)</i> You Don't Need the Number	 15 – Adding and subtracting the same number We are learning that subtracting then adding the same number leaves the original number unchanged. 	90 and 91
Solve addition and subtraction problems using a suitable strategy.	<i>Teaching Addition and Subtraction</i> <i>(Book 5)</i> Make Ten Compatible Numbers Subtraction in Parts Up over the Tens Adding in Parts Comparisons More Comparisons	 16 – Adding and subtracting practice 3 We are learning to solve addition and subtraction problems using different strategies and our basic facts. Note: This unit revises all of the addition and subtraction strategies covered in units 1 to 15 of this back. 	92 to 97

Multiplication and Division

Strategy	Numeracy Book reference	Unit in this book	pages
Solve multiplication problems using ways other than repeated addition. Use the commutative property.	<i>Teaching Multiplication and Division</i> (Book 6) Animal Arrays	 17 – Multiplying using ways other than repeated addition We are learning to find other ways to solve problems like 5 + 5 + 5 + 5. 	98 to 103
Solve two times tables by doubling (and learn them). Use the commutative property.	<i>Teaching Multiplication and</i> <i>Division</i> <i>(Book 6)</i> Twos, Fives, and Tens	18 – Multiplying by twos We are learning to work out times two facts from doubling.	104 to 107
Solve five and ten times tables by doubling and halving (and learn them). Use the commutative property.	<i>Teaching Multiplication and</i> <i>Division</i> <i>(Book 6)</i> Twos, Fives, and Tens	19 – Multiplying by fives and tens We are learning to work out multiplication facts from what we know about fives and tens.	108 to 113
Solve three times tables from skip counting in threes (and learn them).	Teaching Multiplication and Division (Book 6) Three's Company	20 – Multiplying by threes We are learning to solve times three problems.	114 to 117
Solve problems using two, three, five and ten times tables (and learn them).	<i>Teaching Multiplication and</i> <i>Division</i> <i>(Book 6)</i> Animal Arrays Twos, Fives and Tens Three's Company	21 – Multiplying by twos, threes, fives and tens practice We are learning our two, three, five and ten times facts. Note: This unit revises all of the multiplication strategies covered in units 17 to 20 in this book.	118 to 123

Strategy	Numeracy Book reference	Unit in this book	pages
Dividing by sharing using addition to	Teaching Multiplication and Division (Book 6) Dirate Crown	22 – Dividing by sharing	124 to
		making equal shares.	124 10
Dividing by making equal sets.	Teaching Multiplication and Division (Book 6)	23 – Dividing by making equal sets	
	Biscuit Boxes	We are learning to solve problems by counting the number of groups we have made.	128 to 133
Dividing by sharing or making equal sets.	Teaching Multiplication and Division (Book 6)	24 – Dividing practice	
	Pirate Crews Biscuit Boxes	We are learning to solve dividing problems by making equal shares or making equal sets.	134 to 139
		Note: This unit revises all of the division strategies covered in units 22 and 23 in this book.	
Solve problems using a combination	No specific Numeracy Book reference	25 – Solving problems using adding, subtracting, multiplying and dividing	
subtraction, multiplication and division.		We are learning to solve problems by choosing which operation to use and then finding an efficient way to solve the problem.	140 to 149

Ratios and Proportions

Strategy	Numeracy Book reference	Unit in this book	pages
Understand	No specific Numeracy Book reference	26 – Understanding fractions	
what a fraction represents.		<i>We are learning to understand fractions.</i>	150 to 153
Find a unit fraction of a set using addition facts, particularly doubles.	Teaching Fractions, Decimals and Percentages (Book 7) Animals	27 – Finding fractions of sets We are learning to find fractions of a set.	154 to 159
Find unit fractions of a continuous region, like a length or area, using halving.	Teaching Fractions, Decimals and Percentages (Book 7) Wafers	28 – Finding fractions of regions We are learning to find fractions of lengths, including seeing when a fraction is greater than one.	160 to 165
Find fractions of a set or region using basic facts.	Teaching Fractions, Decimals and Percentages (Book 7) Hungry Birds	29 – More finding fractions of sets and regions We are learning to use basic facts to work out fractions of a set.	166 to 169
Order unit fractions and fractions with the same denominator and explain why they are larger or smaller. Order fractions visually using materials, including improper fractions like $\frac{5}{3}$ and $\frac{7}{4}$ and explain what the numerator and denominator	Teaching Fractions, Decimals and Percentages (Book 7) Fraction Circles	30 – Ordering fractions We are learning to put unit fractions in order from smallest to largest. We are learning to put fractions, including improper fractions, in order from smallest to largest.	170 to 172 173 to 175

Strategy	Numeracy Book reference	Unit in this book	pages
Order fractions visually using materials, including improper fractions like $\frac{5}{3}$ and $\frac{7}{4}$, and explain what the numerator and denominator mean.	<i>Teaching Fractions, Decimals and</i> <i>Percentages</i> <i>(Book 7)</i> Fraction Circles Dotty Pairs Game	31 – Ordering fractions using number lines We are learning to put fractions in order using a number line.	176 to 179
Recognise fractions that add to a whole.	<i>Teaching Number Sense and</i> <i>Algebraic Thinking</i> <i>(Book 8)</i> Fractions in a Whole	32 – Fractions that add to a whole We are learning about fractions that add up to a whole.	180 to 183
Find fractions of sets and regions and order fractions.	<i>Teaching Fractions, Decimals and</i> <i>Percentages</i> <i>(Book 7)</i> Animals Wafers Hungry Birds Fraction Circles Dotty Pairs Game <i>Teaching Number Sense and</i> <i>Algebraic Thinking (Book 8)</i> Fractions in a Whole	33 – Fraction practice We are practising with fractions. Note: This unit revises all the fraction strategies covered in units 26 to 32 in this book.	184 to 189

Algebraic Thinking

Strategy	Numeracy Book reference	Unit in this book	pages
Continue on a picture pattern.	Teaching Number through Measurement, Geometry, Algebra and Statistics (Book 9) Thinking Ahead	34 – Continuing picture patterns We are learning how to extend a	190 to
	Sticky Moments	repeating picture pattern.	193
Continue on a picture pattern and work out the rule for finding the next picture in the sequence.	Teaching Number through Measurement, Geometry, Algebra and Statistics (Book 9) Thinking Ahead Sticky Moments	35 – Rules for picture patterns We are learning how to extend a repeating picture pattern and use number strategies to think ahead.	194 to 199
Continue on a number pattern and work out the rule for finding the next number in the sequence.	No specific Numeracy Book reference	36 – Number patterns We are learning how to continue a number pattern and find the rule for finding the next number.	200 to 205
Show relationships using graphs.	No specific Numeracy Book reference	37 – Graphing We are learning to read graphs and show relationships using a graph.	206 to 211
Understand the symbols for less than or greater than and apply them.	No specific Numeracy Book reference	38 – Less than and greater than We are learning to use symbols for less than and greater than.	212 to 215
Understand what the equals symbol means and solve simple equations.	Teaching Number through Measurement, Geometry, Algebra and Statistics (Book 9) Numbers at Work	39 – Equations We are learning bow to solve simple equations.	216 to 223

Number Knowledge

Knowledge being developed	Numeracy Book reference	Number Knowledge unit in this book	pages
Identify all of the numbers in the range 0 to 1000. (Number Identification and Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Number Fans Place Value Houses Number Hangman Arrow Cards Zap	Number Knowledge unit A Place value up to 1000	224
Identify all of the numbers in the range 0 to 1000. (Number Identification)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Number Fans Place Value Houses Number Hangman	Number Knowledge unit B Reading and writing whole numbers up to 1000	228
Know the number of tens in decades and the groupings of ten and a hundred that can be made from a three-digit number. (Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Number Fans Place Value Houses Number Hangman Tens in Hundreds and More	Number Knowledge unit C How many tens?	229
Know the groupings of hundreds in centuries and thousands. (Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Number Fans Place Value Houses Number Hangman Tens in Hundreds and More	Number Knowledge unit D Hundreds in hundreds and thousands	233
Recall multiplication basic facts with tens. (Basic Facts and Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Digits on the Move	Number Knowledge unit E Multiplying by 10	234

Knowledge being developed	Numeracy Book reference	Number Knowledge unit in this book	pages
Order whole numbers in the range 0 to 1000. (Number Sequence and Order)	<i>Teaching Number Knowledge</i> (Book 4) Number Fans Card Ordering Arrow Cards Number Line Flips Bead Strings Who is the Richest?	Number Knowledge unit F Ordering numbers up to 1000	236
Round three-digit whole numbers to the nearest 10 or 100. (Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Sensible Rounding	Number Knowledge unit G Rounding to the nearest ten or hundred	239
Say the number word sequences forwards and backwards by ones, tens and hundreds in the range 0 to 1000. (Number Sequence and Order)	<i>Teaching Number Knowledge</i> (<i>Book 4</i>) Counting Skip-counting on the Number Line Beep Close to 100	Number Knowledge unit H Skip counting in ones, tens and bundreds	242
Say the skip counting sequences, forwards and backwards, in the range 0 to 100 in twos, threes, fours, fives and tens. (Number Sequence and Order)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Counting Skip-counting on the Number Line Beep	Number Knowledge unit I Skip counting in twos, threes, fours and fives	244
Say the number 1, 10, 100 before and after a given number in the range 0 to 1000. (Number Sequence and Order)	<i>Teaching Number Knowledge</i> (<i>Book 4</i>) Counting Skip-counting on the Number Line Beep Lucky Dip	Number Knowledge unit J What comes 1, 10 or 100 before and after me?	246

Knowledge being developed	Numeracy Book reference	Number Knowledge unit in this book	pages
Recall the addition facts to decades. (Grouping/Place Value and Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Up to Ten Tens Frames Again Patterns to Ten Number Mats and Number Fans Bridges	Number Knowledge unit K Addition facts to decades	248
Recall the addition facts to decades. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Up to Ten Tens Frames Again Patterns to 10 Number Mats and Number Fans Bridges	Number Knowledge unit L Adding to the next ten	253
Recall the doubles to 20 and corresponding halves, e.g. $6 + 6$, $\frac{1}{2}$ of 14. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Double Trouble Patterns to 10 Bridges	Number Knowledge unit M Doubles and halves	255
Recall the multiples of 10 that add to 100, e.g. 30 + 70, 40 + 60. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Tens Frames Again Patterns to 10 Number Mats and Number Fans Tens in Hundreds and More	Number Knowledge unit N Adding to hundreds with tens	259
Know the groupings within 100, e.g. 49 and 51 (particularly multiples of 5, e.g. 25 and 75). (Grouping/Place Value)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Tens Frames Again Patterns to 10 Number Mats and Number Fans	Number Knowledge unit O Pairs that add to 100	261
Recall the multiples of 100 that add to 1000, e.g. 400 and 600, 300 and 700. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Tens Frames Again Patterns to 10 Number Mats and Number Fans	Number Knowledge unit P Adding to a thousand with hundreds	263

Knowledge being developed	Numeracy Book reference	Number Knowledge unit in this book	pages
Know that numbers can be partitioned in many different ways. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Double Trouble Number Boggle Tens Frames Again Number Mats and Number Fans Addition Flash Cards	Number Knowledge unit Q Partitioning	264
Know the groupings of two (or three) that are in numbers to 20. (Grouping/Place Value)	<i>Teaching Number Knowledge</i> (<i>Book 4</i>) Counting Skip-counting on the Number Line Beep	Number Knowledge unit R How many groups of two or three?	265
Know the groupings of five (or four) that are in numbers to 50. (Grouping/Place Value)	<i>Teaching Number Knowledge</i> (<i>Book 4</i>) Counting Skip-counting on the Number Line Beep	Number Knowledge unit S How many groups of four or five?	267
Recall the multiplication facts for the 2, 3, 4, 5 and 10 times tables and the corresponding division facts. (Basic Facts)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Counting Skip-counting on the Number Line Beep Number Mats and Number Fans Multiplication Madness Multiplication Flash Cards	Number Knowledge unit T Two, three, four, five and ten times tables	268
Record the results of mental calculations using equations and diagrams. (Written Recording)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Number Mats and Number Fans Bridges Multiplication Madness Dividing? Think About Multiplying First	Number Knowledge unit U Recording calculations	273

Knowledge being developed	Numeracy Book reference	Number Knowledge unit in this book	pages
Identify the symbols for the most common fractions including at least halves, quarters, thirds, fifths and tenths. (Number Identification)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Fraction Pieces Creating Fractions Non-unit Fractions	Number Knowledge unit V Naming fractions	274
Identify the symbols for improper fractions, e.g. $\frac{5}{4}$. (Number Identification)	<i>Teaching Number Knowledge</i> <i>(Book 4)</i> Creating Fractions Non-unit Fractions	Number Knowledge unit W Improper fractions	278

