

Stages 6-7 Addition and Student Planner

Stage	IALT	Personalised Activity	Computer Mathletics	Maintenance Group Box
6	<p>1. Solve + and - problems using rounding and compensation (tidy numbers).</p> <p>2. Solve + and - problems using equal</p>	<p>NZCM Adding using tidy numbers with problems like $37+? = 52$ pages 30- 31 and <u>pages 32-33</u>.</p> <p>Adding using tidy numbers with problems like $15+27=?$ Pages 34-37</p> <p>Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p> <p>NNN Stage 6- Part A: Using tidy numbers to solve problems p.38</p> <p>NNN Stage 6-Part B: Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p>FIO- (Tidy Numbers) N3.2 Tracking Toroa p.1 NS&AT3.1 Tidying Up p.2</p> <p>ANP Addition: Adjusting to make 10 p.23 Adjusting to make 100 p.24 Compensation strategy-rounding up p.25 Compensation strategy- rounding down p.26 Grouping numbers to make 100 p.24</p> <p>Estimating answers p.34 (could work chn into rounding and compensating)</p> <p>ANP Subtraction: When one number is near a hundred p.22 When one number is over a hundred p.23 Tidy numbers (1) p.24 Tidy numbers (2) p.25 Tidy problems p.26 Applying Mental Strategies p.29 Age on a number line p.30</p> <p>NZCM Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p>		The Card Game
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	<p>additions.</p> <p>45.</p> <p>NNN Stage 6-Part B: Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p>ANP Subtraction: When one number is near a hundred p.22 When one number is over a hundred p.23 Equal Additions p.27 Equal subtractions p.28 Applying Mental Strategies p.29 Age on a number line p.30</p>		
<p>3. Solve + and - problems using place value.</p>	<p>NZCM- -Subtracting using place value pages 46, 47 and 49. -Parking Numbers p.48 -Adding and subtracting tens and ones separately pages 68-69.</p> <p>*NZCM-Adding and Subtracting where large numbers roll over pages 74-75.</p> <p>NNN Stage 6- Part A: Identifying place value p.17 Using place value to solve problems p.37</p> <p>NNN Stage 6-Part B: Mentally adding the ones and tens separately p.16 Rolling over and rolling back p.40</p> <p>ANP Subtraction: Partitioning p.34</p> <p>FIO N2.1 Hip Hip Hop p.8 N2.1 Weka Wobble p.11 N3.3 Slippery Slope p.8 N3-4.1 Money Everywhere p.1 NS&AT3.1 Megabytes of Memory p.4 N7/8 L.1 Firewood Fever p.16 N7/8 L.1 Space Zapper p.8 N7/8 L.1 Fundraiser p.6</p> <p>ANP Addition: -Adding hundreds then tens then ones p.28 and 29 -3 digit addition with no trading p.35 -3 digit addition with trading to the tens p.36 -3 digit addition with trading to the hundreds p.37 -3 digit addition with trading to the tens and hundreds p.38 -4 digit addition with trading to the hundreds and thousands p.40</p>	<p><u>Year 5 Time and Place</u> Place Value to Thousands</p> <p><u>Year 5 Time and Place (something easier)</u> Making Big Numbers Count Place Value to Millions</p> <p><u>Year 6 Rounding and Place Value (something harder)</u> Expanding Numbers Place Value to Millions Rounding Numbers</p> <p><u>Year 7 Number Rules (something easier)</u> Place Value to Thousands</p> <p><u>Year 7 Number Rules (middle)</u> Place Value to Millions</p> <p><u>Year 6 Operations with Number (something easier)</u> Column Addition Column Subtraction Remainders by Tables Columns that subtract</p>	<p>Thousands Book Game- Secret Number</p> <p>Target</p> <p>Number Fans AA</p> <p>Tens Frames</p> <p>Arrow Cards</p>

		-4 digit mixed trading p.41		
	4. Solve + and - problems using reversing.	<p>NZCM- -Subtracting by adding instead pages 50-51 -Subtracting bigger numbers by adding instead pages 52-53. -Adding by subtracting instead pages 54-55.</p> <p>*NZCM- Subtracting by doing a different subtraction pages 56-57. *Subtraction with bigger numbers by doing a different subtraction pages 58-59.</p> <p>FIO BF3 Array Puzzles p.8</p> <p>ANP Addition: Adding to subtract p.21 Reversing the question p.22</p> <p>NNN Stage 6-Part B: Reversing problems and using mental methods p.20</p>		
	5. Solve + and - problems using compatible numbers.	<p>NZCM- Adding and subtracting by looking for compatible numbers pages 70-73.</p> <p>FIO <i>(Compatible Numbers)</i> N2.1 Different Strokes p.2 N2.1 Birthday Time p.10 N2.2 Hitting 100 p.4 N3.3 Crazy Compatibles p.1 N3.3 Skimming Stones p.4 NS&AT2-3.1 Wrapping Up Wontons p.1 NS&AT2-3.1 50 First p.4 NS&AT2-3.2 Tidying Up p.16</p> <p>ANP Addition: Balancing Number sentences p.30</p> <p>NNN Stage 6-Part B: Making balanced equations p.27 Using easy combinations in calculations p.33</p> <p>ANP Subtraction: Three or more at a time (1) p.31 Three or more at a time (2) p.32</p>		The Card Game
	6. Solve addition problems using standard written form.	<p>NZCM Adding using a standard written form pages 82-85. (Also see ANP Addition pages for tens and hundreds and place value)</p>	Year 5 Number and Patterns (something easier) Magic Mental Addition Columns that add	Create and solve algorithms. Check your answers on the calculator.

	<p>7. Solve subtraction problems using standard written form.</p> <p>NZCM- Subtracting using a standard written form pages 86-89</p> <p>ANP Subtraction: The written algorithm for subtraction p.35 3 digit subtraction with trading p.36 3 digit subtraction with trading in the tens p.37 Subtraction with trading in the hundreds p.38 Trading in every column p. 39 Subtraction and addition skills p.45</p>	<p>Year 5 Number and Patterns (something easier) Columns that subtract</p> <p>Year 5 Number and Patterns (middle) Column Addition Column Subtraction Problems: Add and Subtract</p>	<p>Create and solve algorithms. Check your answers on the calculator. (Was this the fastest and most efficient strategy? If not which would have been faster?)</p>
	<p>E1. Use more than one strategy when solving + and - problems.</p> <p>NZCM- Mental or Written for addition and subtraction? Pages 90-91</p> <p>ANP Addition: Choosing an appropriate strategy p.33</p> <p>ANP Subtraction: Choose your own strategy p.33 Mental Strategies (1) p.40 Mental Strategies (2) p.41 Mental or Written? p.42 Problem Solving p.46</p> <p>NNN Stage 6-Part B: Applying mental subtraction methods p.25 Using more than one strategy to solve problems p.42</p>	<p>Year 5 Number and Patterns (something harder) Adding colossal columns Subtracting colossal columns Word problems Mass word Problems</p>	<p>Practice naming and using as many maths strategies as you can. (What strategies do you know? Which strategies do you need to learn or practice more?)</p>
	<p>E2. Choose the most efficient strategy when solving + and - problems.</p> <p>NZCM- Adding and Subtracting by choosing an efficient strategy pages 92-95 and 97-99</p> <p>*NZCM- Years and years page 96</p> <p>ANP Addition: Choosing an appropriate strategy p.33</p> <p>ANP Subtraction: Choose your own strategy p.33 Mental Strategies (1) p.40 Mental Strategies (2) p.41 Mental or Written? p.42 Problem Solving p.46</p> <p>NNN Stage 6-Part B: Applying mental subtraction methods p.25 Using more than one strategy to solve problems p.42</p>	<p>Year 5 Number and Patterns (something harder) Adding colossal columns Subtracting colossal columns Word problems Mass word Problems</p>	<p>Practice naming and using as many maths strategies as you can. (What strategies do you know? Which strategies do you need to learn or practice more?)</p>

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<p>1. Solve + and - problems using rounding and compensation from tidy numbers.</p>	<p>NZCM- Adding using tidy numbers with problems like $37+? = 52$ pages 30- 31 and <u>pages 32-33</u>.</p> <p>Adding using tidy numbers with problems like $15+27=?$ Pages 34-37</p> <p>Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p> <p>NNN Stage 6- Part A: Using tidy numbers to solve problems p.38</p> <p>NNN Stage 6-Part B: Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p>FIO- (Tidy Numbers) N3.2 Tracking Tora p.1 NS&AT3.1 Tidying Up p.2</p> <p>ANP Addition: Adjusting to make 10 p.23 Adjusting to make 100 p.24 Compensation strategy-rounding up p.25 Compensation strategy- rounding down p.26 Grouping numbers to make 100 p.24 Estimating answers p.34 (could work chn into rounding and compensating)</p> <p>ANP Subtraction: When one number is near a hundred p.22 When one number is over a hundred p.23 Tidy numbers (1) p.24 Tidy numbers (2) p.25 Tidy problems p.26 Applying Mental Strategies p.29 Age on a number line p.30</p>		<p>The Card Game</p>
<p>2. Solve + and - problems using place value partitioning.</p>	<p>NZCM- -Subtracting using place value pages 46, 47 and 49. -Parking Numbers p.48 -Adding and subtracting tens and ones separately pages 68-69.</p> <p>*NZCM- Adding and Subtracting where large numbers roll over pages 74-75.</p> <p>NNN Stage 6- Part A:</p>	<p><u>Year 5 Time and Place</u> Place Value to Thousands</p> <p><u>Year 5 Time and Place (something easier)</u> Making Big Numbers Count Place Value to Millions</p> <p><u>Year 6 Rounding and Place Value (something harder)</u></p>	<p>Thousands Book Game- Secret Number</p> <p>Target</p> <p>Number Fans AA</p> <p>Tens Frames</p> <p>Arrow Cards</p>

	<p>Identifying place value p.17 Using place value to solve problems p.37</p> <p>NNN Stage 6-Part B: Mentally adding the ones and tens separately p.16 Rolling over and rolling back p.40</p> <p>ANP Addition: Adding decimals using place value p.43</p> <p>ANP Subtraction: Partitioning p.34</p> <p>FIO N2.1 Hip Hip Hop p.8 N2.1 Weka Wobble p.11 N3.3 Slippery Slope p.8 N3-4.1 Money Everywhere p.1 NS&AT3.1 Megabytes of Memory p.4 N7/8 L.1 Firewood Fever p.16 N7/8 L.1 Space Zapper p.8 N7/8 L.1 Fundraiser p.6</p> <p>ANP Addition: -Adding hundreds then tens then ones p.28 and 29 -3 digit addition with no trading p.35 -3 digit addition with trading to the tens p.36 -3 digit addition with trading to the hundreds p.37 -3 digit addition with trading to the tens and hundreds p.38 -4 digit addition with trading to the hundreds and thousands p.40 -4 digit mixed trading p.41</p>	<p>Expanding Numbers Place Value to Millions Rounding Numbers</p> <p>Year 7 Number Rules (something easier) Place Value to Thousands</p> <p>Year 7 Number Rules (middle) Place Value to Millions Year 6 Operations with Number (something easier) Column Addition Column Subtraction Remainders by Tables Columns that subtract</p>	
3. Solve + and - problems using reversibility.	<p>NZCM- -Subtracting by adding instead pages 50-51 -Subtracting bigger numbers by adding instead pages 52-53. -Adding by subtracting instead pages 54-55.</p> <p>*NZCM- Subtracting by doing a different subtraction pages 56-57. Subtraction with bigger numbers by doing a different subtraction pages 58-59.</p> <p>FIO BF3 Array Puzzles p.8</p> <p>ANP Addition: Adding to subtract p.21 Reversing the question p.22 Reversibility and tidy numbers with decimals p.44</p>		

		<p>NNN Stage 6-Part B: Reversing problems and using mental methods p.20</p>		
	<p>4. Solve + and - problems using equal additions.</p>	<p>NZCM- Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p> <p>NNN Stage 6-Part B: Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p>ANP Subtraction: When one number is near a hundred p.22 When one number is over a hundred p.23 Equal Additions p.27 Equal subtractions p.28 Applying Mental Strategies p.29 Age on a number line p.30</p>		
	<p>5. Solve + and - problems using standard written forms.</p>	<p>NZCM- -Adding using a standard written form pages 82-85. -Subtracting using a standard written form pages 86-89</p> <p>NNN Stages 7 & 8 Part B: Using written forms with x problems p.29</p> <p>ANP Subtraction: The written algorithm for subtraction p.35 3 digit subtraction with trading p.36 3 digit subtraction with trading in the tens p.37 Subtraction with trading in the hundreds p.38 Trading in every column p. 39 Subtraction and addition skills p.45</p>	<p><u>Year 7 Operations with Number (something easier)</u> Magic Mental Addition Magic Mental Subtraction Column Addition Column Subtraction</p>	
	<p>6. Solve + and - problems using negatives (integers).</p>	<p>NZCM S7 AM Bk 1- Adding and Subtracting Integers pages 28-29</p> <p>Pages 30-33 and 34-38</p> <p>Page 39</p> <p>Number Smart Bk 1 Years 6-8 Positive and negative numbers p.8-9</p> <p>FIO N3-4.1 Walking the Plank p.23 N3-4.3 The Volcanoes Erupt p.20 N3-4.3 Chilly Heights p.22 N7/8 4.4 It's a Try p.8 N7/8 4.4 Lifting Weights p.9</p>		

		N7/8 4.4 Integer Zap p.10 N7/8 4.4 Shifty Subtraction p.15 N7/8 4.6 Judo Competition p.14		
	7. Solve + and - problems using simple equivalent fractions.	<p>NNN Stages 7 & 8 Part A: Learning Equivalent Fractions p.24-26</p> <p>NNN Stages 7 & 8 Part B: Converting a fraction to equivalent fractions p.32-33</p> <p>NZCM S7 AM Bk2- Equivalent Fractions pages 30-35.</p> <p>Adding and Subtracting Fractions pages 36-37.</p> <p>FIO N3.3 Stacking Up p.20 N7/8 4.5 Egyptian Fractions PR 3-4.1 Galloping Greyhounds p.1</p>	<p><u>Year 6 Algebra and Fractions (something easier)</u> Fractions of a collection Shading equivalent fractions</p> <p><u>Year 6 Algebra and Fractions (middle)</u> Simplifying Fractions Equivalent Fractions</p> <p><u>Year 7 Operations with Number (something easier)</u> Shading equivalent fractions</p>	<p>Fraction Cards Practice simplifying fractions. (How fast can you simplify?)</p> <p>Choose a fraction. Then list as many equivalent fractions for it as you can. Who can get the most?</p>
	E1. Use more than one strategy when solving + and - problems.	<p>NZCM- Mental or Written for addition and subtraction? Pages 90-91</p> <p>FIO BF3 Paths and Pairs p.9 BF3 Calculator Golf p.18 N3.2 Stepping Out p.2 N3.3 Strategy Strut p.6 N3.3 Worth the Work p.10 N3-4.1 Head Cases p.13 N3-4.1 Kapa Haka p.14 NS&AT3.2 Maths Detective p.2</p> <p>Number Property Sheets+/- Multiple Ways to Add and Subtract</p>		<p>Squeezie Box Arrow Cards Multiplication Grid Game Card Games Salute</p>
	E2. Choose the most efficient strategy when solving + and - problems.	<p>NZCM S7 AM Bk1- Addition and Subtraction Revision pages 18-21.</p> <p>NNN Stages 7 & 8 Part B: Choosing the best problem solving strategy p.30-31</p> <p>FIO BF3 Paths and Pairs p.9 BF3 Calculator Golf p.18 N3.2 Stepping Out p.2 N3.3 Strategy Strut p.6 N3.3 Worth the Work p.10 N3-4.1 Head Cases p.13 N3-4.1 Kapa Haka p.14 NS&AT3.2 Maths Detective p.2</p>		