

# Stages 5-6 Addition and Subtraction Student Planner

Stage	IALT	Personalised Activity	Computer Mathletics	Maintenance Group Box
5	1. Solve simple + and - problems using doubles.	<b>NNN Stages 3 and 4-</b> -Doubling numbers up to 10 p.36-38 <b>NNN Stages 3 and 4 Part B-</b> -Doubling numbers up to 10 p.29-30 <b>ENP Addition-</b> -Doubles to 5 p.22 -Doubles plus 1 to 5 p.23 -Doubles past 10 p.30 <b>NNN S5 x and / Part B:</b> Doubling and Halving pages 5-10. <b>NNN S5 x and / -</b> Doubling and Halving p.5 and 6 <b>NNN S5 + and - Part A:</b> Doubling and Halving pages 20 -21. <b>FIO-</b> N2.1-Helping Hands p.3 N2.2 It's Not Fair p.15 BF2.3 Fizzing It Up p.5	<u>Year 4 Counting and Grouping (middle)</u> Dividing Twos Groups of Three Groups of Four	<b>NNN S5 x and / Part b-</b> Snap page 44 and 46-49 for cards.
	2. Solve simple + and - problems using fives.	<b>ENP Subtraction-</b> -Subtracting from five (1,2) p.7-8 -Using fives p.12 <b>ENP Addition-</b> -Using fives p.14 -Combinations to 10 (1,2) p.15-16 <b>Teacher Tools Add/Sub-</b> -Using fives p.14 -Crossing the fives barrier p.24 <b>ENP Subtraction-</b> Using Fives p.12 <b>FIO</b> N2.2 Flexible Fingers p.8-9 N2.2 On Target p.11	<u>Year 4 Counting and Grouping (something harder)</u> Dividing Five <u>Year 4 Counting and Grouping (something easier)</u> Groups of five	Squeezeie Box  Fly Flips
	3. Solve simple + and - problems by making tens.	<b>ENP Subtraction-</b> -Subtracting 10 p.29 -Subtracting tens p.30 -Counting back in tens (1, 2) p.37-38 -Subtracting the tens first (1) p.40 -Subtracting the tens first (2) p.42 <b>ENP Addition-</b> -Making 10 first p.42 -Adding tens p.35 -Adding past 10 p.29 -Combinations to 10 (3) p.28 <b>ANP Subtraction-</b> -Breaking a 10 (1, 2) p.10-11 <b>ANP Addition-</b> -Making 10 first p.5 -Adjusting to make 10 p.24 -Adding using 10 p.11 <b>Teacher Tools Add/Sub-</b> -Make Ten p.36 <b>FIO</b> N2.2 Counting Counts p.10 N2.2 On and off the Train p.14	<u>Year 4 Addition and Subtraction (something easier)</u> Everyday money Who has the money? Adding to Ten Addictive Addition Simple Subtraction  <u>Year 4 Counting and Grouping (something easier)</u> Groups of Ten	Target  Making Cube packets of ten.  Binding 10 popsicle sticks.

		NS&AT2-3.2 Make 28 p.14 BF3 Animal Antics p.1 BF3 Carrot Country p.6 BF3-4 Diamond Dazzle p.4 BF3-4 Bunches p.1 BF3-4 Magical Tens p.1 BF3-4 Face Totals p.18		
	<b>4. Solve 2 and 3 digit + and - problems by using tidy numbers.</b>	<b>ANP Addition-</b> -Jumping the number line (1, 2) p.16-17 -Jumping in groups of tidy ten p.20 -Grouping numbers to make 100 p.27 -Compensation strategy- rounding up p.25 -Compensation strategy- rounding down p.26 <b>ANP Subtraction-</b> -Grouping then subtracting (1, 2, 3) p.7-9 -Missing Numbers (1, 2, 3) p.16-18 -Don't Subtract Add (1, 2, 3) p. 19, 20, 21 -When one number is near a hundred p.22 -When one number is over a hundred p.23 -Tidy numbers (1,2) p.24-25 -Tidy Problems p. 26 <b>Teacher Tools Add/Sub-</b> -Compatible numbers p.37 -Jumping the number line p.44 -Don't subtract add p.45 <b>FIO</b> 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 N3.2 Tracking Toroa p.1 NS&AT3.1 Tidying Up p.2		The Card Game  Jumping the Number line practice.
	<b>5. Solve 2 and 3 digit + and - problems by using place value.</b>	<b>ENP Subtraction-</b> -Subtracting tens, then ones p.41 -Subtracting a group of tens first p.43 -Subtracting tens from a 3-digit number p.44 <b>ENP Addition-</b> -Counting on tens with the hundreds chart p.36 -Adding one and tens on a hundreds chart p.37 -Adding ones and tens (1, 2, 3) p.38-40 -Breaking to 10 p.42 -Over the tens p.43 -Adding up over the tens p.44 -Missing ones and tens (1, 2, 3) p.45-47 <b>ANP Addition-</b> -Adding ones and tens (1,2) p.16-17 -Adding hundreds then tens then ones	Year 4 Addition and Subtraction (something easier) Adding to Ten Addictive Addition Simple Subtraction	Questions on board or in modelling book.  Story problems.  Chn write story problems and swap with buddy.  "If this is the answer what was the question?" – Chn brainstorm 5 possible solutions and record their working. TPS  Number lines

6		<p>(1, 2) p.28-29</p> <p>-3 digit addition with no trading p.35</p> <p>-3 digit addition with trading to the tens p.36</p> <p>-3 digit addition with trading to the hundreds p.37</p> <p>-3 digit addition with trading to the tens and hundreds p.38</p> <p><b>ANP Subtraction-</b></p> <p>-Three or more at a time (1, 2) p.31-32</p> <p>-The written algorithm for subtraction p.35</p> <p>-3-digit subtraction with trading p.36</p> <p>-3 digit subtraction with trading in the tens p.37</p> <p>-Subtraction with trading in the hundreds p.38</p> <p>-Trading in every column p.39</p> <p><b>Teacher Tools Add/Sub-</b></p> <p>-Adding ones and tens p.33</p> <p>-Subtracting ones and tens p.34</p> <p>-The missing ones and tens p.35</p> <p>-Subtraction in parts p.38</p> <p>-Up and over the tens p.39</p> <p>-Adding in parts p.40</p> <p>-How many ten dollar notes p.42</p> <p><b>FIO</b></p> <p>N7/8 L.1 Caught on Camera p.14</p>		
	<p><b>E1. Use more than one strategy when solving + and - problems</b> (NB: not on wall display).</p>	<p><b>ENP Subtraction-</b></p> <p>-Word Problems (1, 2) p.45-46</p> <p><b>ENP Addition-</b></p> <p>Using strategies p.48</p> <p><b>ANP Subtraction-</b></p> <p>-Mental strategies (1, 2) p.40-41</p> <p>-Subtraction and addition skills p.45</p> <p>-Problem solving p.46</p>		
	<p><b>E2. Select the most efficient strategy for a problem</b> (NB: not on wall display).</p>	<p><b>ENP Subtraction-</b></p> <p>-Word Problems (1, 2) p.45-46</p> <p><b>ENP Addition-</b></p> <p>Using strategies p.48</p> <p><b>ANP Subtraction-</b></p> <p>-Mental strategies (1, 2) p.40-41</p> <p>-Subtraction and addition skills p.45</p> <p>-Problem solving p.46</p>		
6	<p><b>1. Solve + and - problems</b></p>	<p>NZCM-Adding using tidy numbers with problems like <math>37+?</math> =52 pages 30- 31 and <u>pages 32-33.</u></p> <p>NZCM- Adding using tidy numbers with problems like <math>15+27=?</math> Pages 34-37</p>		The Card Game

	<p><b>using rounding and compensation (tidy numbers).</b></p>	<p>NZCM-Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>NZCM-Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p> <p><u>NNN Stage 6- Part A:</u> Using tidy numbers to solve problems p.38</p> <p><u>NNN Stage 6-Part B:</u> Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p><u>FIO-</u> (Tidy Numbers) N3.2 Tracking Toroa p.1 NS&amp;AT3.1 Tidying Up p.2</p> <p><u>ANP Addition:</u> 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><u>ANP Subtraction:</u> 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><b>2. Solve + and - problems using equal additions.</b></p>	<p>NZCM-Subtracting using tidy numbers pages 38-40 and <u>pages 41-43</u></p> <p>NZCM-Adding and subtracting using tidy numbers close to 100 pages 44 and 45.</p> <p><u>NNN Stage 6-Part B:</u> Adjusting to the nearest 100 to solve problems p.21 Making tidy numbers p.23</p> <p><u>ANP Subtraction:</u> 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>The Card Game</p>
	<p><b>3. Solve + and - problems using place value.</b></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><u>NNN Stage 6- Part A:</u> Identifying place value p.17 Using place value to solve problems p.37</p> <p><u>NNN Stage 6-Part B:</u> Mentally adding the ones and tens separately p.16 Rolling over and rolling back 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>Thousands Book Game- Secret Number</p> <p>Target</p> <p>Number Fans AA</p> <p>Tens Frames</p> <p>Arrow Cards</p>

		<p><u>ANP Subtraction:</u> Partitioning p.34</p> <p><u>FIO</u> N2.1 Hip Hop p.8 N2.1 Weka Wobble p.11 N3.3 Slippery Slope p.8 N3.4.1 Money Everywhere p.1 NS&amp;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><u>ANP Addition:</u> -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><u>Year 7 Number Rules (middle)</u> Place Value to Millions <u>Year 6 Operations with Number (something easier)</u> Column Addition Column Subtraction Remainders by Tables Columns that subtract</p>	
	<p><b>4. Solve + and - problems using reversing.</b></p>	<p>NZCM- Subtracting by adding instead pages 50-51 NZCM- Subtracting bigger numbers by adding instead pages 52-53. NZCM-Adding by subtracting instead pages 54-55.</p> <p>*NZCM- Subtracting by doing a different subtraction pages 56-57. *NZCM-Subtraction with bigger numbers by doing a different subtraction pages 58-59.</p> <p><u>FIO</u> BF3 Array Puzzles p.8</p> <p><u>ANP Addition:</u> Adding to subtract p.21 Reversing the question p.22</p> <p><u>NNN Stage 6-Part B:</u> Reversing problems and using mental methods p.20</p>		
	<p><b>5. Solve + and - problems using compatible numbers.</b></p>	<p>NZCM- Adding and subtracting by looking for compatible numbers pages 70-73.</p> <p><u>FIO</u> (Compatible Numbers) 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&amp;AT2-3.1 Wrapping Up Wontons p.1 NS&amp;AT2-3.1 50 First p.4 NS&amp;AT2-3.2 Tidying Up p.16</p> <p><u>ANP Addition:</u> Balancing Number sentences p.30</p> <p><u>NNN Stage 6-Part B:</u> Making balanced equations p.27 Using easy combinations in calculations p.33</p> <p><u>ANP Subtraction:</u> Three or more at a time (1) p.31 Three or more at a time (2) p.32</p>		The Card Game
	<p><b>6. Solve addition</b></p>	<p>NZCM Adding using a standard written form pages 82-85.</p>	<p><u>Year 5 Number and Patterns (something easier)</u> Magic Mental Addition</p>	Create and solve algorithms. Check your answers on the calculator.

	<p><b>problems using standard written form.</b></p>	<p>(Also see ANP Addition pages for tens and hundreds and place value)</p>	<p>Columns that add</p>	
	<p><b>7. Solve subtraction problems using standard written form.</b></p>	<p>NZCM-Subtracting using a standard written form pages 86-89</p> <p><u>ANP Subtraction:</u> 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 5 Number and Patterns (something easier)</u> Columns that subtract</p> <p><u>Year 5 Number and Patterns (middle)</u> 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><b>E1. Use more than one strategy when solving + and - problems.</b></p>	<p>NZCM-Mental or Written for addition and subtraction? Pages 90-91</p> <p><u>ANP Addition:</u> Choosing an appropriate strategy p.33</p> <p><u>ANP Subtraction:</u> 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><u>NNN Stage 6-Part B:</u> Applying mental subtraction methods p.25 Using more than one strategy to solve problems p.42</p>	<p><u>Year 5 Number and Patterns (something harder)</u> 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><b>E2. Choose the most efficient strategy when solving + and - problems.</b></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><u>ANP Addition:</u> Choosing an appropriate strategy p.33</p> <p><u>ANP Subtraction:</u> 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><u>NNN Stage 6-Part B:</u> Applying mental subtraction methods p.25 Using more than one strategy to solve problems p.42</p>	<p><u>Year 5 Number and Patterns (something harder)</u> 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>