

Stage 7-8 Addition and Subtraction Student Planner

Stage	IALT	Personalised Activity	Computer Mathletics	Maintenance Group Box
7	1. Solve + and - problems using rounding and compensation from tidy numbers.	<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</p>		The Card Game

	Age on a number line p.30		
2. Solve + and - problems using place value partitioning.	<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 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</p>	<p><u>Year 5 Time and Place</u> <u>Place Value to Thousands</u></p> <p><u>Year 5 Time and Place</u> <u>(something easier)</u> Making Big Numbers Count <u>Place Value to Millions</u></p> <p><u>Year 6 Rounding and Place Value (something harder)</u> Expanding Numbers <u>Place Value to Millions</u> <u>Rounding Numbers</u></p> <p><u>Year 7 Number Rules</u> <u>(something easier)</u> <u>Place Value to Thousands</u></p> <p><u>Year 7 Number Rules (middle)</u> <u>Place Value to Millions</u> <u>Year 6 Operations with Number</u> <u>(something easier)</u> Column Addition Column Subtraction Remainders by Tables Columns that subtract</p>	Thousands Book Game- Secret Number Target Number Fans AA Tens Frames Arrow Cards

		-4 digit mixed trading p.41		
	<p>3. Solve + and - problems using reversibility.</p> <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:</p>	<p><u>Year 7 Operations with Number (something easier)</u></p> <p>Magic Mental Addition Magic Mental Subtraction Column Addition Column Subtraction</p>		

	<p>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>		
6. Solve + and - problems using negatives (integers).	<p>NZCM S7 AM Bk 1- Adding and Subtracting Integers pages 28-29 Pages 30-33 and 34-38 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 N7/8 4.4 Integer Zap p.10 N7/8 4.4 Shifty Subtraction p.15 N7/8 4.6 Judo Competition p.14</p>		
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. 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>Year 6 Algebra and Fractions (something easier) Fractions of a collection Shading equivalent fractions</p> <p>Year 6 Algebra and Fractions (middle) Simplifying Fractions Equivalent Fractions</p> <p>Year 7 Operations with Number (something easier) 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	NZCM- Mental or Written for addition and subtraction? Pages 90-91		<p>Squeezie Box</p> <p>Arrow Cards</p>

	<p>strategy when solving + and - problems.</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>Multiplication Grid Game Card Games Salute</p>
	<p>E2. Choose the most efficient strategy when solving + and - problems.</p>	<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>		
<p>8</p>	<p>1. Solve + and - problems with fractions by converting to common denominators.</p>	<p>See Problem Progressions AM-AP Page 2 Ratios and Proportions-for practice questions.</p> <p>FIO NS&AT3-4.1 Stripping Fractions p.8</p> <p>Teacher Tools 2005 Fractions, Decimals and Percentages: Folding Fractions and Decimals p.38-39</p>	<p>Year 7 Fraction Rules (middle) Add: No Common Denominator Subtract: No Common Denominator Fraction by Whole Number Test</p>	<p>Create 3- Material Master game 7-9 Card Games Salute</p>
	<p>2. Solve + and - problems with whole numbers.</p>	<p>NZCM S7 Bk 1- Multiplying larger numbers pages 102-105.</p>	<p>Year 7 Decimal Power (something easier) Dividing by 10, 100, 1000 Comparing Decimals Multiplying by 10, 100, 1000 Nearest Whole Number</p> <p>Year 7 Decimal Power (middle) Are you ready? Adding Decimals Subtracting Decimals Multiply Decimals: 10, 100, 1000</p>	<p>Decimal Number Line. Decimal Place Value Houses</p>

			Divide Decimals: 10,100,1000 Decimal by Whole Number Test	
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