

NUMBER SENSE AND ALGEBRA – ADDITION STRATEGIES (AdS)

AdS1 – EMERGENT STRATEGIES

- I can combine two groups of objects and attempt to find the total
- I can compare two quantities up to 10 and state which group has more

AdS2 – PERCEPTUAL STRATEGIES

- I can demonstrate one-to-one correspondence, e.g. one number name for each object
- I can count by ones to find the total of two groups
- I can build and subtract numbers by using objects or fingers
- I can make combinations to form numbers up to 10, e.g. 7 and 3 makes 10

AdS3 – FIGURATIVE (IMAGINED UNITS)

- I can use visualising to find the total of two concealed collections of items, counting from one to find the total

AdS4 – COUNTING ON (BY ONES)

- I can treat a number word as a completed count when solving problems, e.g. I have 7 apples. I want 10. How many more do I need?
- I can use the *count-up from* strategy to solve addition problems, e.g. to find $6 + 3$, start at 6 and count 7, 8, 9, the solution is 9
- I can use the *count-up to* strategy to solve problems involving missing numbers, e.g. to solve $6 + ? = 9$, start at 9 and count 7, 8, 9, the solution is 3

AdS5 – COUNTING BACK (BY ONES)

- I can use the *count-down from* strategy to solve subtraction problems, e.g. $9 - 3 = ?$, 9... 8, 7, 6, the solution is 6
- I can use the *count-down to* strategy to solve subtraction problems, e.g. 9 take away something equals 6, start at 9... 8, 7, 6, the solution is 3
- I can find the difference between two numbers less than 20
- I can count back to find the difference between two quantities where the difference is no greater than 4

AdS6 – FLEXIBLE STRATEGIES WITH COMBINATIONS TO 10

- I can use a range of non-count by one strategies when adding or subtracting numbers, e.g. bridging to 10, doubles or near doubles
- I can partition whole number into parts, e.g. 7 is 5 and 2, 6 and 1 or 4 and 3
- I can use my knowledge of the relationship between addition and subtraction to help me solve problems, e.g. I know that 7 and 3 makes 10 so 10 take away 7 is 3

AdS7 – FLEXIBLE STRATEGIES WITH TWO-DIGIT NUMBERS

- I can use my knowledge of 10 as a unit to add and subtract two-digit numbers, e.g. jump strategy, split strategy or compensation
- I can manipulate tens and ones to solve addition problems, e.g. $45 + 37 = ?$
 $40 + 30 = 70$
 $5 + 7 = 12$
 $70 + 12 = 82$
- I can manipulate tens and ones to solve subtraction problems, e.g. $45 - 37 = ?$
 $45 - 30 = 15$
 $15 - 7 = 8$
- I can partition numbers in different ways to help me solve addition and subtraction problems, e.g.
 $53 - 27 = ?$
 $40 + 13 - 20 - 7$
 $= 40 - 20 + 13 - 7$
 $= 20 + 6$
 $= 26$

AdS8 – FLEXIBLE STRATEGIES WITH THREE-DIGIT NUMBERS AND BEYOND

- I can manipulate hundreds, tens and ones to solve addition problems involving three-digit numbers and beyond, e.g.
 $457 + 250 = ?$
 $457 + 200 = 657$
 $657 + 50 = 707$
- I can manipulate hundreds, tens and ones to solve subtraction problems involving three-digit numbers and beyond, e.g.
 $3000 - 260 = ?$
 $3000 - 200 = 2800$
 $2800 - 60 = 2740$
- I can solve subtraction problems involving trading or the exchange of units
- I can use multiple strategies for solving everyday problems involving addition and subtraction