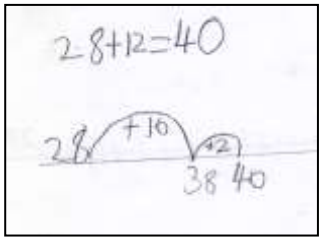
Long Ridings Addition Policy

Step 1

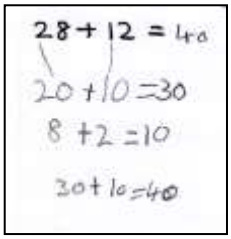
- Recognise each numeral and be able to count out a corresponding number of counters.
- Order numbers and understand 'larger' and 'smaller'.
- Conservation of number (ability to hold the largest number in head and count on to the total).
- Use place value to break down the numbers into tens and units, adding these together separately (mental strategy).
- Begin to use a number line (or 100 square) to add on or jump forward.
- Informal jottings and practical apparatus.
- **TARGET: Learn addition facts to 10 then 20.**



Examples of suggested resources:
Numicon
Bead strings
A number line to 20 (or 100 square) to count on or jump forward to add.
A blank number line

Step 2

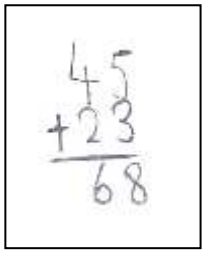
- Informal jottings and practical apparatus.
- Continue to partition numbers into tens and units, then into hundreds, tens and units.
- Continue to use a blank number line to count on from the largest number.
- Use practical problem solving and investigations to support and extend additions.
- **TARGET: Know addition and subtraction facts to 20.**



Examples of suggested resources:
Numicon
Dienes apparatus
Place value counters
Place value cards
Number lines (or 100 square) to count on or jump forward to add.
A blank number line

Step 3

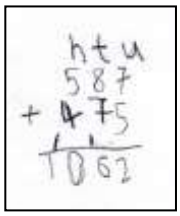
- An understanding of place value or tens and units.
- Jottings still used.
- Introduction of vertical methods begin when children are in year 3.
- The expanded form of the vertical layout is very important to show understanding.
- Carrying is not introduced until all other forms are handled competently, introducing 'adjustments' like this gradually.



Examples of suggested resources:
Numicon
Dienes apparatus
Place value counters
Place value cards

Step 4

- Place value thoroughly understood.
- Don't ignore informal strategies (important for mental calculations).
- Introduce concept of 'carrying' into vertical form in Yr4.
- Expect to estimate a 'sensible' answer.



Examples of suggested resources:
Numicon
Dienes apparatus
Place value counters

Step 5

- Don't ignore informal strategies
- Choose when to use formal written methods and when to use mental methods.
- Extend vertical method to larger numbers of digits and decimals when appropriate.

Examples of suggested resources:
Numicon
Dienes apparatus
Place value counters