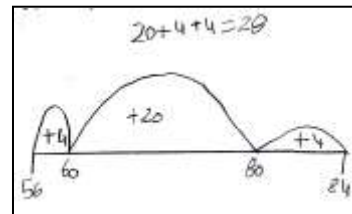


Long Ridings Subtraction Policy

Step 1

- Recognise each numeral and be able to count out a corresponding number of counters.
- Order numbers and be able to understand 'larger' and 'smaller'.
- Use practical equipment to subtract a set.
- Learn to use a number line to 20 (or 100 square) to count back to subtract.
- Use place value to break down the numbers into tens and units and be able to subtract whole tens.
- Use lots of practical equipment (including fingers and apparatus) and jottings.
- Begin to use a blank number line to find the 'difference' by counting on.
- **TARGET: Learn subtraction 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 find the 'difference'.

A blank number line

Step 2

- Understand that subtraction is the inverse of addition.
- Continue to use jottings (for mental methods like partitioning) and practical resources.
- Continue to use a blank line to count on.
- Use the most efficient method for the calculation.
- **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 find the 'difference'.

A blank number line

84 - 30 = 54
54 - 2 = 52

Step 3

- An understanding of place value or tens and units.
- Jottings and informal number lines still used (mental calculations).
- An introduction of a formal written method in Yr3 without 'exchanging', supported firstly by Dienes equipment and then by place value counters.

Examples of suggested resources:

Numicon

Dienes apparatus

Place value counters

Place value cards

Step 4

- Place value thoroughly understood.
- Don't ignore informal strategies (mental methods).
- Expect to estimate a 'sensible' answer.
- Introduce the concept of 'exchanging' in a formal written method in Yr4, using practical equipment to begin with.

Examples of suggested resources:

Numicon

Dienes apparatus

Place value counters

T u
86
- 33

53

Step 5

- Don't ignore informal strategies (mental methods).
- Choose when to use formal written methods and when to use mental methods.
- Extend vertical method to larger numbers and decimals to 3 decimal places when appropriate.

Examples of suggested resources:

Numicon

Dienes apparatus

Place value counters

758 - 86
672