Master Standard Partitioning (4 digits) B

Rationale

In this step, pupils build on their understanding of combining and partitioning 4-digit numbers. They progress to using part-whole models and place value arrow cards to write and complete addition and subtraction equations. This includes equations with missing numbers and combined place values. For example, 4,208 + ___ = 4,278 and 7,296 - ___ = 7,206

Pupils' understanding will be developed further by composing and decomposing numbers abstractly, completing addition and subtraction equations without the support of visual representations.

Key Stem Sentences

- ___ + ___ + ___ + ___ = ___
- ___ + ___ + ___ = ___ / ___ + ___ = ___
- ___ - ___ = ___

Key Vocabulary

- 1,000s / 100s / 10s / 1s
- compose / decompose
- combine / partition

Key Representations

Part-Whole Models

Composing

2,000 + 400 + 80 + 1 = ____

Decomposing

9,356 - ____ = 9,056

Place Value Arrow Cards

Composing

7,000 + 200 + 5 = 7,205
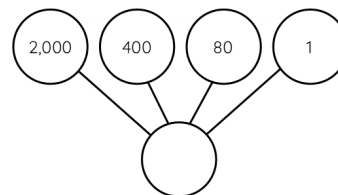
Decomposing

5,039 - 9 = 5,030

Common Errors or Misconceptions

- Pupils may compose incorrectly when the order of the parts are varied. For example, 30 + 500 + 4,000 + 9 = 3,549

Pupils will FLOURISH if they can...
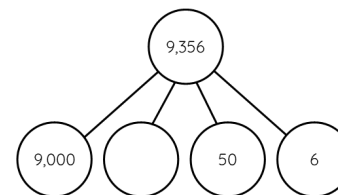
- combine 1,000s, 100s, 10s and 1s into 4-digit numbers and partition 4-digit numbers into 1,000s, 100s, 10s and 1s.
- complete addition and subtraction equations to show the composition and decomposition of numbers.
- identify the missing number in addition and subtraction equations.
- explain their understanding using 'Decide, Assess, Back up' with representations.