

Master Standard Partitioning 21 to 100 A

Rationale

In this practical step, pupils build on their understanding of combining and partitioning 2-digit numbers to 20 to combine and partition 2-digit numbers to 100. They continue to use concrete apparatus to compose and decompose 2-digit numbers by combining and partitioning.



Key Stem Sentences

- ___ and ___ combine to make ___
- ___ partitions into ___ and ___



Key Vocabulary

- 10s / 1s
- compose / decompose
- combine / partition



Common Errors or Misconceptions

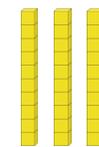
- Pupils may appear to be secure in combining and partitioning using concrete apparatus, but may just be sorting apparatus into each part by colour.
- Pupils may have difficulty with the concept of the relationship between the parts and the whole.



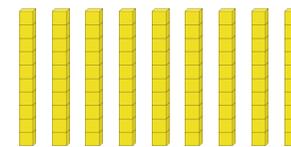
Key Representations

Dienes

Composing

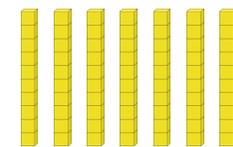


30 and 6 combine
to make 36

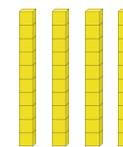


90 and 2 combine
to make 92

Decomposing



75 partitions into
70 and 5



48 partitions into
40 and 8



Pupils will FLOURISH if they can...

- combine 10s and 1s into 2-digit numbers to 100, supported by concrete apparatus.
- partition 2-digit numbers to 100 into 10s and 1s, supported by concrete apparatus.
- explain their understanding using verbal sentences and concrete apparatus.

