

Master Standard Partitioning 11 to 20 B

Rationale

In this step, pupils build on their understanding of composing and decomposing 2-digit numbers to 20

They progress to using pictorial representations to compose and decompose 2 -digit numbers to 20 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

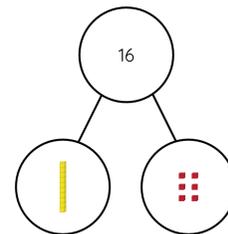
- Pupils may have difficulty with the concept of the relationship between the parts and the whole.



Key Representations

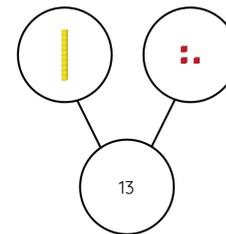
Part-Whole Models with Dienes

Composing



10 and 6 combine to make 16

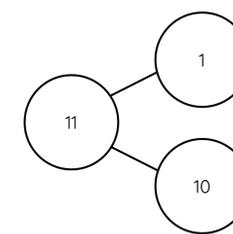
Decomposing



13 partitions into 10 and 3

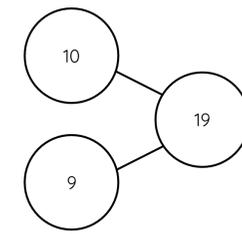
Part-Whole Models

Composing



10 and 1 combine to make 11

Decomposing



19 partitions into 10 and 9



Pupils will FLOURISH if they can ...

- combining 10s and 1s into 2-digit numbers to 20, using pictorial representations.
- partitioning 2-digit numbers to 20 into 10s and 1s, using pictorial representations.
- explain their understanding using verbal sentences and concrete apparatus.

