

# 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

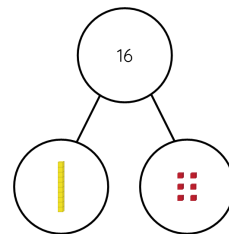
- Pupils may have difficulty with the concept of the relationship between the parts and the whole.



## Key Representations

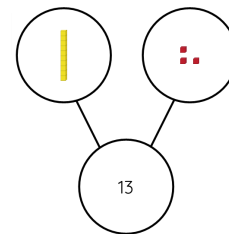
### Part-Whole Models with Dienes

#### Composing



10 and 6 combine to make 16

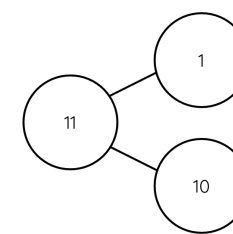
#### Decomposing



13 partitions into 10 and 3

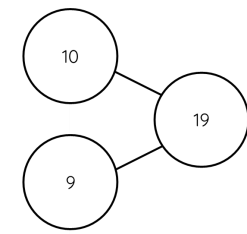
### Part-Whole Models

#### 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.

