

# Master Standard Partitioning 11 to 20 A

## Rationale

In this practical step, pupils are introduced to combining and partitioning. They learn that 1-digit numbers have ones and 2-digit numbers have tens and ones. They use concrete apparatus to combine 10s and 1s to compose 2-digit numbers to 20.

Pupils then continue to use concrete apparatus to decompose 2-digit numbers by 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.



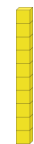
## Key Representations

### Dienes

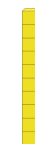
#### Composing



10 and 5 combine  
to make 15



10 and 2 combine  
to make 12

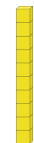


10 and 9 combine  
to make 19

#### Decomposing



18 partitions into  
10 and 8



14 partitions into  
10 and 4



17 partitions into  
10 and 7



## Pupils will FLOURISH if they can...

- combine 10s and 1s into 2-digit numbers to 20, supported by concrete apparatus.
- partition 2-digit numbers to 20 into 10s and 1s, supported by concrete apparatus.
- explain their understanding using verbal sentences and concrete apparatus.

