

Master Representing Numbers to 1,000

Rationale

In this practical step, pupils will deepen their understanding of numbers to 1,000 by representing them in different ways.

They will practise and become familiar with representing 3-digit numbers using a variety of concrete apparatus in order to fully access the subsequent small steps.

Pupils will need access to a variety of concrete apparatus, as shown below, to complete this practical step.



Key Stem Sentences

- There are ___ hundreds, ___ tens and ___ ones.
- The number is ___



Key Vocabulary

- ones
- tens
- hundreds
- one thousand



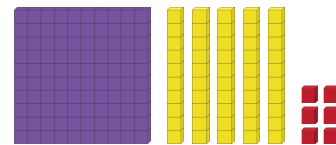
Common Errors or Misconceptions

- When using more abstract representations such as place value counters, pupils may misunderstand the 'value' of each counter as they are all the same size.



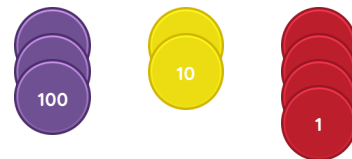
Key Representations

Dienes



There is 1 hundred, 5 tens and 6 ones. The number is 156

Place Value Counters



There are 3 hundreds, 2 tens and 4 ones. The number is 324

Place Value Chart with Digits

100s	10s	1s
8	0	6

There are 8 hundreds and 6 ones. The number is 806

Arrow Cards



There are 9 hundreds, 7 tens and 1 one.
The number is 971



Pupils will FLOURISH if they can...

- accurately represent 3-digit numbers using a variety of concrete apparatus.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and representations.

