

Master Representing Numbers to 10,000

Rationale

In this practical step, pupils will deepen their understanding of numbers to 10,000 by representing them in different ways.

They will practise and become familiar with representing 4-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 ___ thousands ___ hundreds, ___ tens and ___ ones.
- The number is ___



Key Vocabulary

- ones / tens / hundreds / thousands
- ten thousand



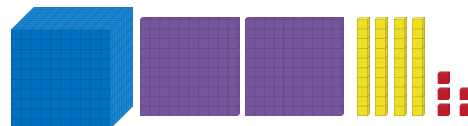
Common Errors or Misconceptions

- 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.



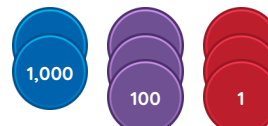
Key Representations

Dienes



There is 1 thousand, 2 hundreds, 4 tens and 5 ones. The number is 1,245

Place Value Counters



There are 2 thousands, 3 hundreds and 3 ones. The number is 2,303

Place Value Chart with Digits

1,000s	100s	10s	1s
7	0	3	6

There are 7 thousands, 3 tens and 6 ones. The number is 7,036

Arrow Cards



There are 6 thousands, 8 hundreds and 9 tens. The number is 6,890

Gattegno Chart

1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
200	300	400	500	600	700	800	900	
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

There are 9 thousands, 1 hundred, 5 tens and 7 ones. The number is 9,157



Pupils will FLOURISH if they can...

- accurately represent 4-digit numbers using a variety of concrete apparatus.
- explain their understanding using 'Decide, Assess, Back up' with representations.

