

Master 10,000s and 100,000s

Rationale

In this step, pupils develop their understanding of thousands from Year 4 and make the link between thousands and ten thousands and subsequently, ten thousands and hundred thousands. They will understand that 10 thousands are equivalent to 1 ten thousand / 10 ten thousands are equivalent to 1 hundred thousand and that 10,000 is 10 times the size of 1,000 / 100,000 is 10 times the size of 10,000. Pupils will learn the equivalence of thousands to multiples of 10,000 / ten thousands to multiples of 100,000

They will deepen their understanding with equivalences of wider powers of 10. For example, 500 hundreds are equivalent to 50,000



Key Stem Sentences

- _____s are equivalent to _____(s).
- ____ is ____ times the size of ____



Key Vocabulary

- ones / tens / hundreds / thousands / ten thousands / hundred thousands
- equivalent to



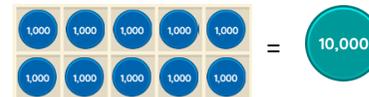
Common Errors or Misconceptions

- Pupils may misunderstand base 10 place value. For example, 600 tens are equivalent to 6 ten thousands or 6,000 hundreds are equivalent to 6 ten thousands.



Key Representations

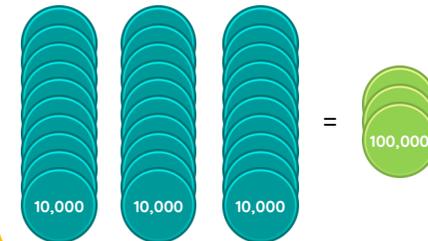
Place Value Counters



10 thousands are equivalent to 1 ten thousand.



10 ten thousands are equivalent to 1 hundred thousand.



30 ten thousands are equivalent to 3 hundred thousands.



Pupils will FLOURISH if they can...

- identify that 10 thousands are equivalent to 1 ten thousand and 10 ten thousands are equivalent to 1 hundred thousand.
- recognise that 10,000 is 10 times the size of 1,000 and 100,000 is 10 times the size of 10,000
- understand equivalence with wider powers of 10
- begin to explain their understanding using their own words and representations.

