

# Master 10s to 20

## Rationale

In this practical step, pupils will develop their understanding of tens. They learn how 10 is represented in Dienes / Base 10 by a ten block.

They will learn that 10 ones are equivalent to 1 ten and identify that 20 ones are equivalent to 2 tens.

*Pupils will need access to concrete apparatus, such as Dienes, to complete this practical step.*



## Key Stem Sentences

- 10 ones are equivalent to 1 ten.
- 1 ten is equivalent to 10 ones.
- 20 ones are equivalent to 2 tens.
- 2 tens are equivalent to 20 ones.



## Key Vocabulary

- ones
- ten
- equivalent to



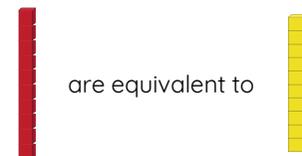
## Common Errors or Misconceptions

- Pupils may misunderstand that 1 ten block represents 10 ones.
- Pupils may still count 10 ones separately rather than grouping as 1 ten.

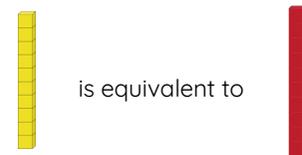


## Key Representations

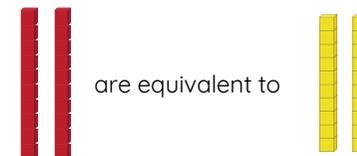
### Base 10 / Dienes



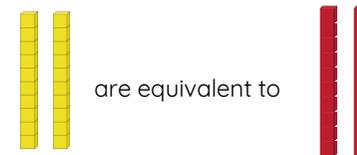
10 ones are equivalent to 1 ten.



1 ten is equivalent to 10 ones.



20 ones are equivalent to 2 tens.



2 tens are equivalent to 20 ones.



## Pupils will FLOURISH if they can...

- recognise that a ten block represents 10 ones.
- identify that 10 ones are equivalent to 1 ten and 20 ones are equivalent to 2 tens.
- explain their understanding using simple verbal sentences and concrete apparatus.

