

# Master Tenths and Hundredths

## Rationale

In this step, pupils will build upon their understanding of tenths from Year 3 and make the link between ones, tenths and hundredths. They will understand that 10 hundredths are equivalent to 1 tenth and that 1 tenth is 10 times the size of 1 hundredth. Pupils will learn the equivalence of hundredths to multiples of tenths. For example, 30 hundredths are equivalent to 3 tenths. They will deepen their understanding with equivalences of wider powers of 10. For example, 100 hundredths are equivalent to 1 one or 6 ones are equivalent to 600 hundredths.



## Key Stem Sentences

- \_\_\_ tenths are equivalent to \_\_\_ one (s).
- \_\_\_ hundredths are equivalent to \_\_\_ tenth (s) / one (s).
- \_\_\_ \_\_\_\_\_s are equivalent to \_\_\_ \_\_\_\_\_s.



## Key Vocabulary

- ones / tenths
- hundredths
- equivalent



## Common Errors or Misconceptions

- Pupils may have difficulty understanding the concept of the number one being divided into 100 equal parts or that 0.01 is 1 hundredth the size of 1

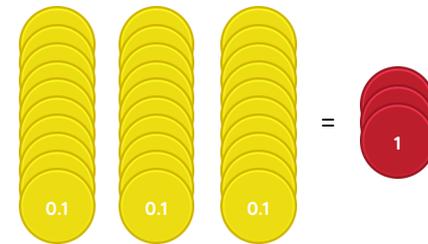


## Key Representations

### Place Value Counters



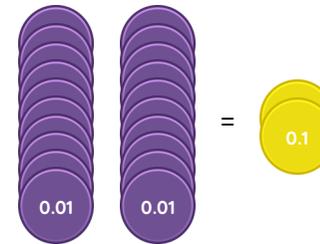
10 tenths are equivalent to 1 one.



30 tenths are equivalent to 3 ones.



10 hundredths are equivalent to 1 tenth.



20 hundredths are equivalent to 2 tenths.



## Pupils will FLOURISH if they can...

- identify that 10 tenths are equivalent to 1 one and 10 hundredths are equivalent to 1 tenth.
- recognise that 1 is 10 times the size of 0.1 and 0.1 is 10 times the size of 0.01
- understand the equivalence with wider powers of 10
- explain their understanding using 'Decide, Assess, Back up' with representations.

