

# Master Measuring Length in Mixed Measures (cm and mm) A

## Rationale

In this practical step, pupils build upon measuring length and height in centimetres in Year 2, and measuring length and height in millimetres in the previous steps, and their work on number lines, by measuring length and height using mixed centimetres and millimetres. They will choose and use appropriate equipment to measure and they will describe measurements in mixed units. For example, 5cm and 8mm. Pupils will then use their understanding to estimate the length or height of objects before checking the accuracy of their estimations.

*Pupils will need access to rulers to complete this practical step.*



## Key Stem Sentences

- The length / height of the \_\_\_ is \_\_\_cm and \_\_\_mm.
- An estimation for the length / height of the \_\_\_ is \_\_\_cm and \_\_\_mm.



## Key Vocabulary

- length / height
- centimetres / millimetres
- cm / mm
- estimation



## Common Errors or Misconceptions

- Pupils may misread the measuring equipment.
- Pupils may not measure from the correct starting point on the ruler.



## Key Equipment

### Ruler



The length of the pencil crayon is 15cm and 8mm.



An estimation for the length of the whiteboard eraser is 13cm and 5mm.

The height of the book is 20cm and 2mm.



## Pupils will FLOURISH if they can...

- accurately measure the length of an object using appropriate equipment.
- describe their measurements using mixed centimetres and millimetres.
- make appropriate estimates of the length or height of objects and check their accuracy.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and representations.

