## Disclaimer/s

We hope you find the information on our website and resources useful.

## Animations

This resource has been designed with animations to make it as fun and engaging as possible. To view the content in the correct formatting, please view the PowerPoint in 'slide show mode'. This takes you from desktop to presentation mode. If you view the slides out of 'slide show mode', you may find that some of the text and images overlap each other and/or are difficult to read.
To enter slide show mode, go to the slide show menu tab and select either from beginning or from current slide.

## Measuring Length and Height

## Need a coherently planned sequence of lessons to complement this resource?



See our Measurement Steps to Progression document.

Twinkl Planlt is our award-winning scheme of work with over 4000 resources.

## Estimating Length and Height



## Aim

- To estimate length or height using a partially-numbered ruler.


## Success Criteria

- I can identify numbers up to 100 cm on a marked ruler.
- I can use my reasoning skills to estimate lengths and heights on an unmarked ruler.


## Remember It

## Which is the shortest object? Explain how you know.



The battery is the shortest. It is 5 cm long because it is halfway between 0 cm and 10 cm .


The spoon is 11 cm long because it is 1 cm more than 10 cm .

## Remember It

## Which is the longest object? Explain how you know.



The peg is 8 cm long because it is 2 cm less than 10 cm .


The pen is the longest. It is 16 cm long because it is 1 cm more than 15 cm .

## Missing Measurements

## Look carefully at this ruler. What do you notice?

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |

This ruler (or 'metre stick') measures centimetres in multiples of 10 , up to 100 cm (one metre).

What do you think the unmarked lines show?
How can we measure an object with this ruler?
Think about the 0 to 100 number line to help you.


## Missing Measurements

What measurement is each arrow pointing at? How do you know?

ir The arrow is pointing at 33 cm . You can
he check by counting on from 30 cm .

The arrow is pointing at 88 cm . You can S check by counting back from 90 cm .

## Missing Measurements

How long are these bats? Explain how you know.


## Missing Measurements

How long is this racket? Explain how you know.

The tennis racket is 94 cm long because it is 1 cm less than 95 cm .


## Missing Measurements

This ruler is 100 cm long.


How could we use this ruler to estimate length?
 a sensible guess.
We coutd add 50 cm , halfway between 0 cm and 100 cm .

This will help us to estimate other between these markings.

Where would 60 cm go?

60 cm would be just over halfway because it is 10 cm more than 50 cm .

## Estimating Length and Height

If I am measuring something that is 20 cm long, where might you estimate it to be on the ruler?


## Estimating Length and Height

If I am measuring something that is 95 cm long, where might you estimate it to be on the ruler?


## Estimating Length and Height

Estimate the length of the hockey stick and the table tennis bat. What measurement can we mark on to help us?


## Estimating Length and Height



## Estimating Length and Height

## Estimate the height of the cone.



## Estimating Length and Height

## Estimate the height of the cricket stumps.



## Activity Sheets



## Diving into Mastery

Dive in by completing your own activity!


## Measurement Match-Up

Can you match the measurements to the correct place on the ruler?


## Aim

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