

Measurement: Length & Height

National Curriculum Aims

- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)
- compare and order lengths and record the results using $>$, $<$ and $=$.

Key Vocabulary

Centimetre cm	a measure of length in the metric system.
Estimate	To estimate a number is to decide roughly how big that number is.
Height	The height of something is how tall it is.
Kilometre	A measurement of length in the metric system, equal to 1000 metres.
Length	The distance between two points or two ends of a line.
Metre m	A measurement of length in the metric system. There are 100 centimetres in 1 metre.
Mile	An imperial measurement of length for distances.
Millimetre mm	A measurement of length. There are 10mm in 1cm.
Ruler	A ruler is a straight-edged instrument with a scale marked along it. It is used to draw and measure straight lines.



Home Learning

- Find some items at home that you can measure using centimetres and metres. Can you compare and order these items by their length or height?

Core Knowledge and Representations

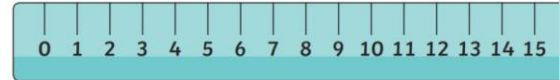
Measuring in Centimetres

Measure from zero.



This ruler measures in **centimetres (cm)**. The paintbrush is 8cm long.

This ruler is to scale.

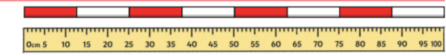


Measuring in Metres



We can measure the length or height of larger objects in **metres (m)**.

The girl is 1m and 20cm tall.

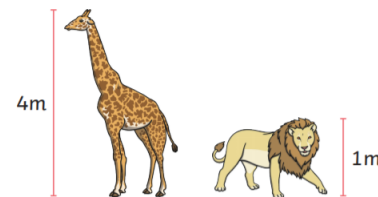


We can use metre sticks, trundle wheels or tape measures.

1 metre = 100 centimetres

Comparing Height

The giraffe is **taller** than the lion.
The lion is **shorter** than the giraffe.

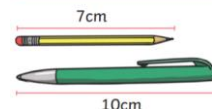


$4m > 1m$

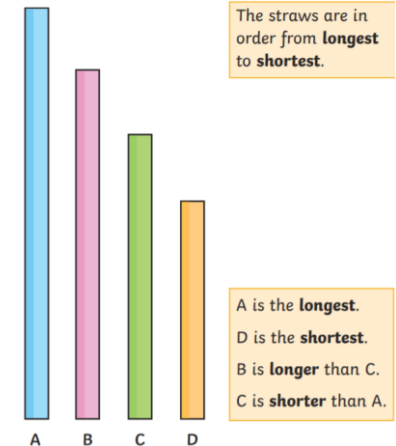
Comparing Length

The pencil is **shorter** than the pen.
The pen is **longer** than the pencil.

$7cm < 10cm$



Ordering Length



The straws are in order from **longest** to **shortest**.

A is the **longest**.
D is the **shortest**.
B is **longer** than C.
C is **shorter** than A.