## $\square$ <br> Maths

## Measurement

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



## USTNO O NTHGOR

## Aim

- To measure length and height in centimetres.


## Success Criteria

- I can name some tools used for measuring in centimetres.
- I can understand how to use different rulers to measure in centimetres.
- I can measure how long or tall an object is in centimetres.
- I can measure how long or tall a line is in centimetres.


## Remember It

Compare the length and height of these objects. Are the sentences true or false? How do you know?


The pencil is longer than the scissors. ?

The pencil is shorter than the scissors.

$$
?
$$

The cup is taller than the glue stick.


The glue stick is taller than the cup.


## Measuring

If we want to find out how tall or long something is, we can measure it.

We have been measuring using paperclips, cubes and our hands.

Are all our hands the same size?
How might that make measuring tricky?


## Measuring

If we want to find out how tall or long something is, we can measure it.

When we measure, we can use standard units so we can compare measurements and talk about them with other people.

We can measure length and height in centimetres.

- We can write centimetres as cm.

5 centimetres $=5 \mathrm{~cm}$

## Measuring



## Measuring

Rulers and tape measures are both tools we use to measure heights and lengths.


## Investigate Your Ruler

Look at the ruler. What do you see?


## Investigate Your Ruler

## Look at the ruler. What do you see?

Some rulers start at the 0 mark.
You can line up the thing you are measuring with the end of these rulers.


Some rulers have measurements in inches on them too.

## Investigate Your Ruler

Some rulers have the numbers in-between the centimetre markings.

mm
$\begin{array}{lllllllllllllll}0 & 10 & 20 & 30 & 40 & 50 & 60 & 70 & 80 & 90 & 100 & 110 & 120 & 130 & 140\end{array}$


Some rulers have measurements in millimetres on them too. There are 10 mm in 1 cm .

## Investigate Your Ruler

Some rulers have the numbers in-between the centimetre markings.
You can start measuring from the end of the ruler.


To measure with this type of ruler, look at the number in the space before the centimetre marking.

This pencil is 10 cm long.

## Using a Ruler to Measure

1. Make sure the thing being measured is lined up with 0 . This might be the end of your ruler.

2. Make sure the object is straight and lined up along the ruler.
3. Look at the end of the thing being measured. Read the number on the ruler.

How long is this pen?
This pen is 8 cm long.

## Using a Ruler to Measure

You can use a ruler to measure how tall something is like this:


## Using a Ruler to Measure

When measuring the length or height of an object, it's important to find the correct start and end points.


## Using a Ruler to Measure

When measuring the length or height of an object, it's important to find the correct start and end points.

They haven't found the correct start point.

$$
\text { This toy car is } 11 \mathrm{~cm} \text { long. }
$$



## Using a Ruler to Measure

We can also use rulers to measure the lengths of lines or sides of a shape. How long are these? How do you know?

The line is
14 cm long.

The side of the rectangle is 8 cm long.


## Get Measuring!

The paintbrush is the longest.


## Get Measuring!

The paperclip is the shortest.


## Measurement Check

Can you check if the children are measuring correctly?


The pencil should be lined up with the end of the ruler, not 1 cm .

My pencil is 10 cm long.

## Measurement Check

Can you check if the children are measuring correctly?


## Measurement Check

Can you check if the children are measuring correctly?


The pencil should be lined up with 0 , not the end of the ruler.

My pencil is 8 cm long.

## Measurement Check

Can you check if the children are measuring correctly?


## How Tall?



## Diving into Mastery

Dive in by completing your own activity!


## Almost or Nearly

What if this happens?


We could say this pencil is just over 9 cm .

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