



# Year 1

Remote Learning

## Maths Week 12 (w/b 8.6.20)

### Message

Dear Year 1,

This week, you are going to be refreshing and refining your understanding of measuring length.

There are videos and activities and some games to play too. You will need things from around your house more than worksheets this week, so be prepared to go hunting for useful things.

We hope you have fun learning!

Have a lovely week, and we look forward to seeing some of you in school.

The Year 1 teachers

### Investigations

Same Length Trains

<https://nrich.maths.org/4332>

Take one metre

<https://nrich.maths.org/152/note>

### Website Links

Measuring in cm

<https://www.topmarks.co.uk/maths-games/measuring-in-cm>

You can play around with drawing and plotting different length towers of blocks using this fun drawing tool. You might want to use it to record your measurements of objects

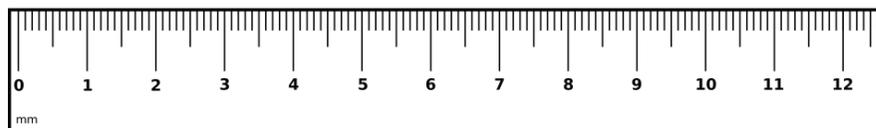
<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

More practice and going over the basics

<https://www.bbc.co.uk/bitesize/articles/zbwc92p>

MyMaths Use our school log in (Username: coleridge1, Password: success74) and then your own log in details to access activities on the MyMaths website.

This week, we are going to be revisiting some of the measuring learning that we started before school closed. You will be using the language of length / height, comparing lengths / heights and practising measuring lengths / heights as accurately as you can.



## Lesson 1 Comparing Length and Height

Watch this video <https://whiterosemaths.com/homelearning/year-1/>

Click on Summer Term – Week 5 (w/c 18<sup>th</sup> May) Lesson 1

You will need to pause the video at some points to have a little think and chat about the questions being asked.

Whilst you watch the video, see if you can notice all the different length and height words. We want you to be using these, whilst you do your activity later.

**(tall taller tallest - short shorter shortest - long longer longest - same)**

Now you are going to find some objects around your house to compare their lengths/heights.

For each object that you choose, you will need to find **three** (or more if you are feeling adventurous) so pick something that comes in **different sizes** – like 3 different sized books or 3 different sized shoes.

Your task is to **put them in order from shortest to longest/tallest and to say a sentence about each object**, e.g. “The blue shoe is shorter than the brown shoe”, “Daddy is the tallest person.”

As you work, **make a quick sketch of your items in order from shortest to longest/tallest as a record of your investigation.**

When you measure your objects against each other, be sure they all **start at the same place** – like on the video. You could also find something to make a straight line to help you spot the differences. This could be a ruler, a strip of paper, a wooden spoon handle – anything that is long enough and straight.

If you are really good at making those comparisons and using all the length/height words to describe the objects, you could challenge yourself - choose 3 or more objects that are really **similar in length/height**, like pencils, only your own shoes, pasta tubes from the same packet....

Repeat the task with these similar sized objects. Now you are going to have to be extra careful to **start all the objects at the same point and look really carefully**. Your straight line might become really important here.

## Lesson 2

## Measuring Length and Height

Watch this video <https://whiterosemaths.com/homelearning/year-1/>

Click on Summer Term – Week 5 (w/c 18<sup>th</sup> May) Lesson 2

You will need to pause the video at some points to have a little think and chat about the questions being asked.

Now you are going to do some measuring yourself. You will need to find some **objects to use as your units of measure**. Think carefully about what to choose. Do you remember in the video what kind of objects worked well for measuring? Lego bricks, felt tip pens, books, paper-clips all work well (so long as they are the same size). Choose **at least 2 different units of measure**.

Now you need to find some **objects to measure**. You can measure anything that you can line your units up against. Think about what units would be sensible to use. Would it be better to measure the length of a room with beads or with magazines? Why? Would it be better to measure your foot with garden spades or paper-clips? Why?

**Measure each item at least twice, using different units of measure. Draw a quick sketch/write the name of the object and record how many units long it is**, e.g. Toy car = 3 Lego figures = 1 colouring pencil

When you have measured a few items, see if you can use what you have learned about measuring to **estimate** (thoughtful guess) how many units long the next items will be, e.g. you can see that the book is longer than the toy car, so you know it must be more than 3 Lego figures – but is it 4 or closer to 10? How do you know?

You can **record your estimates as well as the actual measurements next to the sketch of your object**.

### Lesson 3

### Measuring Length and Height again

Watch this video <https://whiterosemaths.com/homelearning/year-1/>

Click on Summer Term – Week 5 (w/c 18<sup>th</sup> May) Lesson 3

You will need to pause the video at some points to have a little think and chat about the questions being asked.

Now you are going to do some **careful measuring with a ruler**. Remember to start at 0, not the end of the ruler!

If you don't have a ruler, you can print one out [https://www.printablerulers.net/preview/Ruler\\_30-cm\\_by\\_mm](https://www.printablerulers.net/preview/Ruler_30-cm_by_mm)

On a piece of paper, write numbers from **1cm-20cm down the left hand side**. Now you are going on a **measure hunt**. Your task is to find an object that is 1cm long, then an object that is 2cm long, then one that is 3cm long etc. all the way to 20cm. **Write down the name of the object or draw a quick sketch** next to the number of **Centimetres**.

Happy hunting! Hope you can find all 20!

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### Lesson 4

### Measure Up Challenge

You will need your **ruler** again today as well as some **paper** and a **pencil**.

**Pick a number between 10m and 20cm. Write it on your paper.**

Now you have to **find 3 objects, whose lengths add up to that number of cm.**

E.g. Pick 12cm. Write it down. Now find 3 objects whose lengths equal 12cm altogether. A car measures 6cm. A button measures 2cm. A rubber measures 4cm. Altogether that adds up to 12cm.

You don't have to write down the objects this time. See if you can **write a number sentence**. So, for the example above it would be  $12\text{cm}=6\text{cm}+2\text{cm}+4\text{cm}$

Have a go at this once and **think about how you did it**. Did you line the objects up and measure them together? Did you think of what numbers/measurements you would need first and then hunt for objects that fitted your idea? Did you find two objects, measure them together and then count on to find out what the measurement of the third item should be?

There are lots of ways you could do it, but now that you have done it once, **can you think of a different way?** A faster way? A Simpler way? A more efficient way?

Have a few more goes, thinking of a new number of cm each time. You could decide to find 4 items to make your total or 10? Any sensible number, but you have to decide how many **BEFORE** you go looking!

**Record all your findings in number sentences.**

Happy hunting!

**Lesson 5**

Have a go at the Friday Challenge <https://whiterosemaths.com/homelearning/year-1/>

Click on Summer Term – Week 5 (w/c 18<sup>th</sup> May) Friday Maths Challenge

You don't need to print out the questions, you can just write down your answers on a piece of paper. When you have finished, check your answers and then have a look at the answers on the website. Give yourself a big tick for every answer you got right.