



# Year 2

Remote Learning

## Maths Week 15 (w.b. 29.6.20)

### Message

Hello Year 2,

We hope you really enjoyed learning about Time for the last two weeks. We hope you are now able to keep track of your day - so when your grown-ups say it's bedtime in 20 minutes, you can now look at the clock and be able to watch the 20minutes slip by!

This week, we are starting a unit of work called **Mass, Capacity and Temperature**. You will be **measuring** using the units of measure: **grams(g)** and **kilograms(kg)**, **litres(l)** and **millilitres(ml)** and **degrees Celsius (°C)**.

By the end of the week, you will be able to choose the correct unit of measure to estimate and measure: weight/mass using grams and kilograms (g/kg), capacity and volume using litres and millilitres (l/ml) and how hot or cold it is using degrees Celsius (°C).

Remember, you can send any of your learning to: [year2@coleridgeprimary.net](mailto:year2@coleridgeprimary.net). We really love seeing what you have been up to.

Take care,  
Ms Creamer, Mr Heidensohn, Miss Ibbotson and Mr Ibbotson

### Parent Message

Dear Parent,

This week's maths is all about **Mass, capacity and temperature**. These are new objectives for measurement. If we were working on this at school, we would explore using scales, balances, measuring jugs and thermometers. We would do a lot of practical work like baking, potion making and weather reports to track temperature over the week.

In the 5 lessons, there is a video that will guide the children through the learning as well as set some independent activities. Each video lesson will end with some problem solving. The hope is that these videos will allow the children to work through activities more independently. They will be asked to pause the video to have a go and then check their answer as it is worked out on the video. Each lesson requires a pen and paper, some with activity sheets and some with items from home. Every lesson below has a list of what is needed before they get started. The second activity is an extension task and is optional. They are practical and hopefully offer some entertainment for them!

We hope that using these lessons will suit the majority. The children can complete these lessons with relative independence, and if it suits your home situation, they can then dip into the Website Links section to further/consolidate their learning. As always, pick and choose whatever suits your situation best!

Best wishes,  
The Year 2 Team.

### Website Links

**MyMaths**- Login: coleridge1 Password: success724

1. <https://app.mymaths.co.uk/285-lesson/measures>
2. <https://app.mymaths.co.uk/5933-lesson/comparing-measures-2>

**PE**- Supermover

<https://www.bbc.co.uk/teach/supermovers/ks1-maths-capacity-volume/zj8njhv>

### Games:

- Match the object to its temperature: <https://www.turtlediary.com/game/es-timing-temperature-third-grade.html>
- Ordering amounts- Choose your unit of measure: <https://www.topmarks.co.uk/ordering-and-sequencing/coconut-ordering>
- Capacity Countdown- reading scales for capacity/volume: <http://www.ictgames.com/mobilePage/capacity/index.html>
- Reading scales for mass/weight: <http://www.ictgames.com/mobilePage/mostlyPostie/>
- Look at this interactive thermometer: <https://www.mathsisfun.com/measure/thermometer.html>

## Lesson 1 – Comparing Mass

**You will need:** Pen and paper, *Lesson 1- comparing mass activity 1*.

**Key words:** mass, weight, scales, balance, grams, kilograms.

**Introduction:** Before we begin, you should know that **mass** is measured using a **balance** to compare a known amount with an unknown amount and **weight** is measured on a **scale**. Today, you will be comparing different masses with each other using a balance.

**Activity 1: Video and activities-**In this video, we will be looking at comparing mass. You will be asked to pause the video at different points and take part in activities so have your paper ready. First, we will compare some items by ordering them from lightest to heaviest. After that, we will look at more comparing problems together before setting an independent activity (**Lesson 1- comparing mass activity1**). When complete, continue the video and we will go through the answers together before, finally, looking at a reasoning problem. There is also a bonus super challenge where we look at a balancing activity, where you will need to add items together to make 5kg. You can send all possibilities to [year2@coleridgeprimary.net](mailto:year2@coleridgeprimary.net).

Watch **Lesson 1** with Ms.Creamer here: <https://youtu.be/3ldzfBEXd6o>

**Activity 2 (optional):** Mass is measured by using a balance but it is unlikely for you to have a balance at home. If you own weighing scales for baking or even weighing scales in your bathroom, you could compare the weights of objects instead. Weigh different items from around the home (or even your family) and compare the weights from lightest to heaviest. How many of you would it take to be the same weight as your grown-ups?



## Lesson 2 - Measuring Mass in grams and kilograms



**You will need:** Pen and paper and **Lesson 2- activity 1a measuring in grams.**

**Key words:** mass, weight, scales, balance, grams, kilograms.

**Introduction:** Before we begin, it is important to start thinking about how many grams are in a kilogram. Kilo means 1000 so kilo-gram means 1000grams. **1000g=1kg.**

**Activity 1: Video and activities-**In this video, we will be looking at measuring in grams and kilograms. You will be asked to pause the video at different points and take part in activities so have your paper ready. To start, we will be practising reading scales in grams before you do an independent activity. You will need the **Lesson 2- activity 1a measuring in grams** document. After this, we will practise reading/measuring in kilograms from scales before asking you to pause and get some blank paper to write down your workings for *activity 1b*. You can send these combinations to your teacher at [year2@coleridgeprimary.net](mailto:year2@coleridgeprimary.net). We will then finish with a problem.

Watch Lesson 2 with Ms.Creamer here: <https://youtu.be/uPb0PqgZXHk>

**Activity 2 (optional):** Bake something of your choice!

Have some fun baking and doing some maths at the same time. Measure out the ingredients carefully, mix them together and bake! Then the best bit...enjoy with family! 🍰



## Lesson 3- Comparing capacity

**You will need:** Pen and paper to write on, **Lesson 3 –comparing volume activity**

**Key words:** capacity, volume, millilitres, litres, empty, full, half full, quarter full, three-quarter full.



**Introduction:** Before you begin, know that **Capacity** is the amount of liquid a container can hold; **volume** is how much liquid is in the container.



**Activity 1: Video and activities-** In this lesson we will be comparing capacity. You will be asked to pause the video at different points so make sure you have your pen and paper ready. Firstly, we will look at ordering some potion bottles using the words: empty, nearly empty, half full, nearly full and full. We will then look at the difference between capacity and volume and do two activities together to help us better understand the difference. You will then be sent off to complete the **Lesson 3 –comparing volume activity** before we go through the answers together. We finish up with 3 different problems, two on capacity and 1 on volume.

Watch lesson 3 with Ms. Creamer here: <https://youtu.be/ScTzdTQ5yM0>

**Activity 2 (optional):** Comparing different capacities.

Choose a selection of different sized containers. Decide how you will measure how much liquid each container can hold.

Will you use cups?

Ladles?

Bowls?

Spoons?

Order your containers from smallest to largest. Compare the containers using  $>$ ,  $<$  or  $=$

How could I find out how much water each container holds using a cup?



## Lesson 4- Measuring in millilitres and litres



**You will need:** Pen, paper, **Lesson 4- Activity 1a measuring in ml**, measuring jug, water, different sized containers, **Lesson 4- Activity 1b measuring volume**.

**Keywords:** capacity, volume, millilitres, litres, wider, narrower, deeper, shallower, shorter, taller.

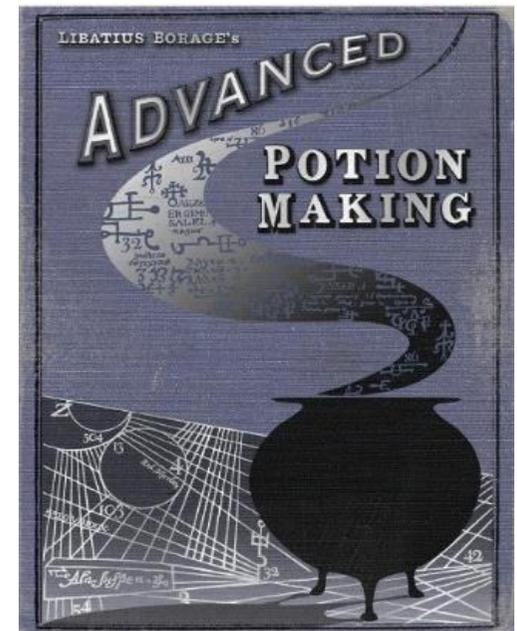
**Introduction:** Today, we will be building on yesterday's lesson by looking at the difference between capacity and volume again. There is a practical element to this lesson, where we would like the children to practise measuring in millilitres. They can use rice or water- whichever would be more convenient.

**Activity 1: Video and activities** – In this video, we will be looking at measuring in millilitres and litres. We will begin this lesson with a reasoning activity, where we will be looking at different sized containers and thinking which one holds the least and which holds the most. You will be encouraged to use the words: wider, narrower, deeper, shallower, shorter, and taller to help explain your answers. After that, we will then quickly look at the difference between capacity and volume again, before going through an activity together and then you will be sent off to do a practical task. You will then be asked to use the **Lesson 4- activity 1a measuring in millilitres** cards to practise filling different containers. Then we will move on to thinking about measuring with litres as well and match up amounts that are in ml and l. We will practise reading a scale before you will be asked to complete **Lesson 4- activity 1b measuring volumes**. Finally, we will finish the lesson working out a problem together.

Watch Lesson 4 with Ms.Creamer here: <https://youtu.be/XCxbAt3gJ6Q>

**Activity 2 (optional):** Potion making (Best done outside and with food colouring or paint mixed with water!)

Pretend you are in the depths of the dungeons of Hogwarts School for WitchCraft and Wizardry. Professor Creamer, Potions Master, has set you a challenge to create your own potion. The best bit is you get to decide what magic it can do. You will need to plan ahead and write down a recipe for a potion using exact ml/l measurements. When your recipe is complete, now cook up your potion!



## Lesson 5 – Consolidation and Investigations

**You will need:** Pen and paper, *Thermometer activity 1a* and *Thermometer activity 1b*.

**Keywords:** temperature, thermometer, hot, heat, cold, degrees Celsius.

**Introduction:** In this lesson, we will be looking at temperature. Its unit of measure is degrees Celsius, named after the Swedish astronomer who invented it. There are other units of measure for temperature (Fahrenheit and Kelvin) but Celsius is the most widely used in the world today.

**Activity 1: Video and activities-** First we will be playing a game to guess the reasonable temperature. (Option to play the game online after video: <https://www.turtlediary.com/game/estimating-temperature-third-grade.html>). We will then practise reading some temperatures on thermometers before doing **Lesson 5- Thermometer activity 1a and 1b**. We will finish by doing a multiple choice problem and a word problem together.

Watch Lesson 4 with Ms.Creamer here: <https://youtu.be/VziDpP0sJ7k>

**Activity 2 (optional):** Record a weather diary for 7 days. Every day for 7 days, make note of/record the temperature at the same time. You could choose noon when the sun is at its highest in the sky or around 3pm when it is at its hottest. Draw a picture to go with your temperature.

