

I can estimate and measure capacity (volume), length and mass (weight)

It is important that you have a good understanding of measures and know which units are appropriate for measuring different quantities. For example, it is best to measure a pencil in centimetres not metres and litres not millilitres are used when filling a car with petrol.

It is also important to be able to convert between different units of measure. For example, to know that 1.5 litres = 1500ml.

This understanding is best embedded through practical activities so this term your maths homework each week is to do one of the following:

* Gather a collection of different sized containers. Estimate the capacity of each one (how many ml/litres they hold). Then use a measuring jug to find out its actual capacity. How good was your estimate? Can you give the answer in **a)** millilitres **b)** litres and millilitres **c)** litres (decimal value).
* Do similar activities based on length and mass.
* Bake a cake making sure you measure all ingredients accurately.
* Estimate the length and width of your bedroom then measure it. Draw a plan of your room and label the length of the parts in **a)** cm and **b)** metres
* Estimate your own mass (weight). Then weigh yourself (and other family members if they’re willing). How accurate was your estimate?

List the weights as **a)** kg and g **b)** kg (decimal value)

* Estimate and measure your height and that of family members.

List heights as **a)** m and cm **b)** m (decimal value)

* Complete the measures activities set as 2Dos on Purple Mash.
* Play some of the following measure-themed computer games:

<http://www.ictgames.com/mobilePage/capacity/index.html>

<https://www.ictgames.com/mobilePage/mostlyPostie/index.html>

<https://www.transum.org/Maths/Activity/Reading_Scales/Default.asp?Level=1>

<https://www.topmarks.co.uk/ordering-and-sequencing/coconut-ordering>

For different strategies, see:

<https://www.homeschoolmath.net/teaching/a/subtract_mentally_2_digit.php>

<https://www.homeschoolmath.net/teaching/a/adding_2_digit.php>

For online games, see:

 <https://www.topmarks.co.uk/maths-games/subtraction-grids>

 <https://www.sheppardsoftware.com/math/addition/fruit-splat-game/>

 <https://mathsframe.co.uk/en/resources/category/9/addition-and-subtraction>

 <https://mathsframe.co.uk/en/resources/resource/573/Birds-v-Robots-Maths-Battle>

Top Tips:

[https://www.bbc.co.uk/teach/supermovers/ks2-maths-mental-addition-&-subtraction/zj9pwty](https://www.bbc.co.uk/teach/supermovers/ks2-maths-mental-addition-%26-subtraction/zj9pwty)

<https://www.bbc.co.uk/bitesize/articles/z4q6pg8>

<https://www.homeschoolmath.net/teaching/a/subtract_mentally_2_digit.php>

**Key Instant Recall Facts**

Y5 – autumn 2