



Knowledge Organiser

Measurement



Year 3

Mass & Capacity

When adding and subtracting mass and capacity/volume, we can use our knowledge of addition and subtraction methods. Remember: **capacity** is the amount of liquid a container can hold and **volume** is how much liquid is in the container.

Builds from Year 2:

Measure mass (kg/g); capacity (litres/ml).
Compare and order mass, volume/capacity using >, < and =.

This year:

Measure, compare, add and subtract mass and capacity/volume.

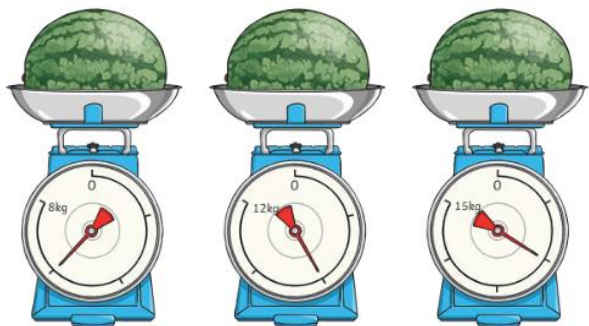
Leads to Year 4:

Convert between different units of measure.
Estimate, compare and calculate different measures.

Measure and Compare

A **gram (g)** is a small unit of measure.

A **kilogram (kg)** is a larger unit of measure.

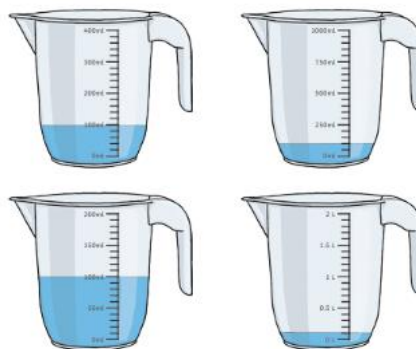


To compare mass, we can use the words 'lighter' and 'heavier'.

$$1000\text{g} = 1\text{kg}$$

A **millilitre (ml)** is a small unit of measure.

A **litre (l)** is a larger unit of measure.



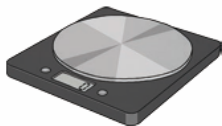
To compare capacities, we can use the word 'full'.

$$1000\text{ml} = 1\text{l}$$

Add and Subtract Mass

$$700\text{g} + 500\text{g} = 1200\text{g} = 1\text{kg } 200\text{g}$$

$$1\text{kg} - 400\text{g} = 1000\text{g} - 400\text{g} = 600\text{g}$$



Add and Subtract Capacity/Volume

$$800\text{ml} + 600\text{ml} = 1400\text{ml} = 1\text{l } 400\text{ml}$$

$$1\text{l } 300\text{ml} - 500\text{ml} = 800\text{ml}$$



Key Vocabulary

mass gram (g) kilogram (kg) capacity volume millilitre (ml) litre (l) heavier lighter