

## Key Vocabulary

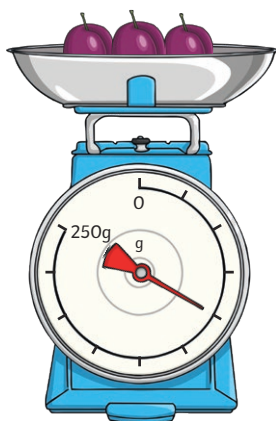
mass
gram
kilogram
capacity
volume
millilitre
litre
lighter
heavier

## Measure and Compare Mass

Scales can be used to measure grams.

A gram is a unit of measurement that is used to measure the mass of something.

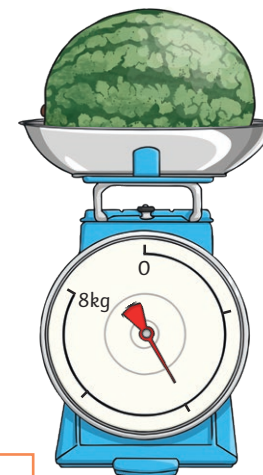
Grams can be written as **g**.



Scales can be used to measure kilograms.

A kilogram is a unit of measurement that is greater than a gram. It is also used to measure the mass of something.

Kilograms can be written as **kg**.



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

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

$$6\text{kg and } 300\text{g} > 3\text{kg and } 600\text{g}$$

$$\frac{1}{2}\text{kg} = 500\text{g}$$

## Measure and Compare Capacity

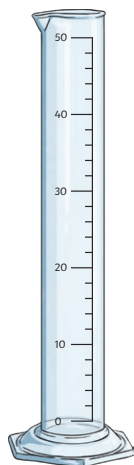
**Capacity** is the amount of liquid a container can hold.

**Volume** is how much liquid is in the container.

Measuring cylinders can be used to measure smaller volumes.

Smaller volumes are measured in millilitres.

Millilitres can be written as ml.



Measuring jugs can be used to measure larger volumes.

Greater volumes are measured in litres.

Litres can be written as l.



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

$$200\text{ml} < \frac{1}{4}\text{l}$$

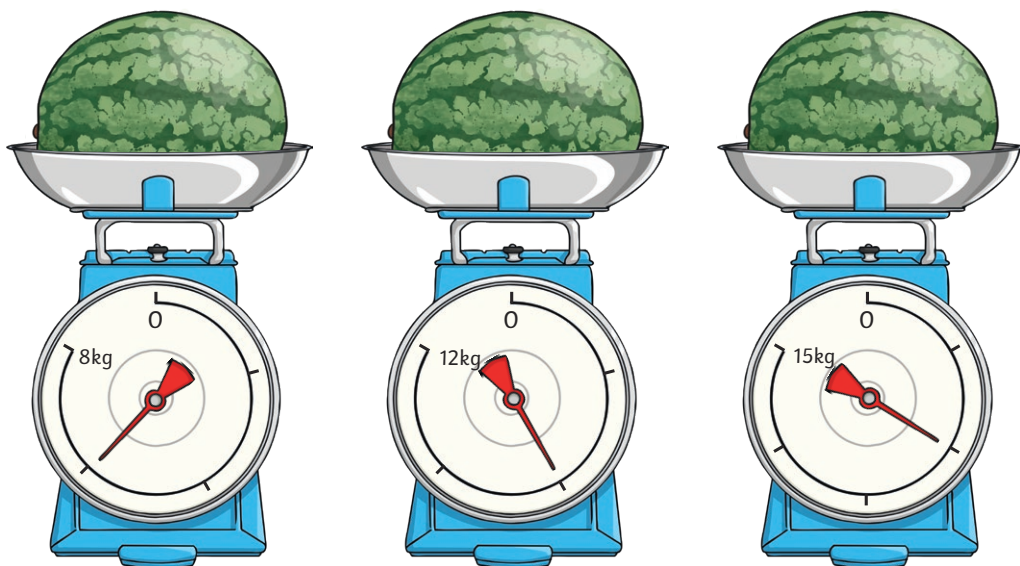
$$2\text{l and } 400\text{ml} = 2400\text{ml}$$

# Mass and Capacity

# Knowledge Organiser

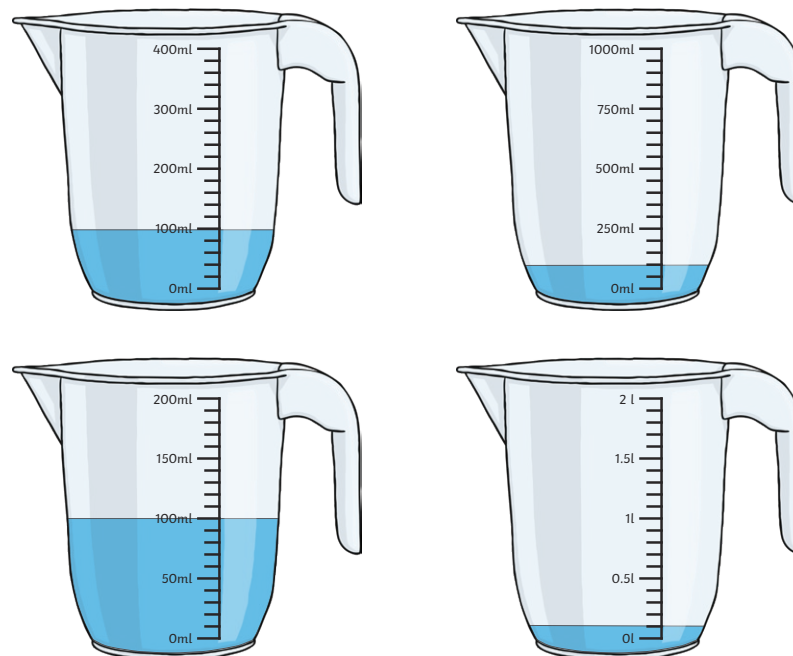
## Mass

Each of the melons has a mass of 6kg but the arrows are all pointing at different points on the scales. This is because each of the measuring scales have different increments marked on them.



## Capacity

Measuring containers all have different capacities.



The volume of liquid in each container is 100ml. Each container has a different capacity.

## Add and Subtract Mass

$$600\text{g} + 500\text{g} = 1100\text{g} = \mathbf{1\text{kg and }100\text{g}}$$

$$1\text{kg} - 300\text{g} = 1000\text{g} - 300\text{g} = \mathbf{700\text{g}}$$



## Add and Subtract Capacities

$$800\text{ml} + 400\text{ml} = 1200\text{ml} = \mathbf{1\text{l and }200\text{ml}}$$

$$1\text{l }300\text{ml} - 200\text{ml} = \mathbf{1\text{l and }100\text{ml}}$$

