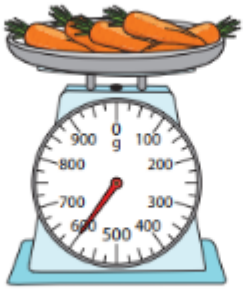
Year 3 **Mass and Capacity**

Key Vocabulary
mass
weight
kilogram (kg)
gram (g)
litres (l)
millilitres (ml)
heavier
lighter
capacity
volume
full
empty
half
quarter

Measuring Mass

Grams (g) are a unit of measure used to measure the **mass** of an object.



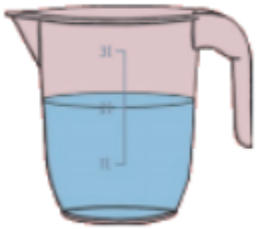
Kilograms (kg) are a unit of measure used to measure the **mass** of an object.

1000 g = 1 kg

Measuring Capacity

Millilitres (ml) are a unit of measure used to measure the **volume** of liquids.

Litres (l) are a unit of measure used to measure the **volume** of larger amounts of liquids.



1000 ml = 1l

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

Volume is the amount of liquid in a container.

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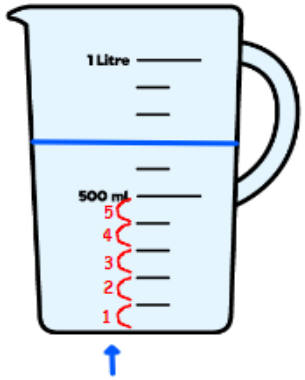
Capacity



Measuring jugs have different capacities and scales used to measure volume. You need to work out the scale before you can measure capacity.

On this jug there are 5 intervals between 0 and 500. Which means to work out the scale we can either count in multiples of 2, 5, 10 etc or simply do 500 ÷ 5 = 100.

The capacity here is 700 ml

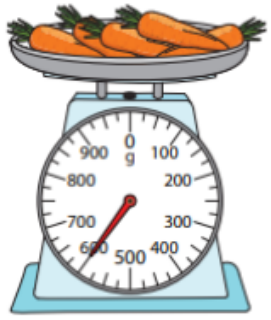
Add and Subtract Capacity

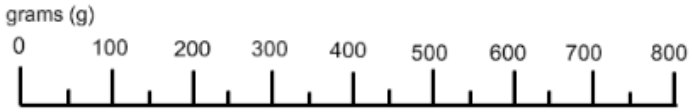
600 ml + 800 ml = 1400 l = 1 l 400 ml

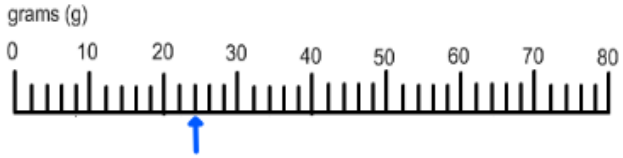
1 l - 300 l = 1000 ml - 300 ml = 700 ml

Convert into millilitres.

Mass







These measuring scales also have different increments marked on them. To measure mass we must work out what the increments represent.

The scale above has 5 intervals between 0 and 10. 10 ÷ 5 = 2, so the scale here is 2.

The arrow is pointing at 24g.

Add and Subtract Mass

700 g + 600 g = 1300 g = 1 kg 300 g

2 kg - 400 g = 2000 g - 400 g = 1600 g

Convert into grams.