


Key Vocabulary	Definition
mass	the amount of matter in an object (often called 'weight')
gram (g)	unit for measuring mass
kilogram (kg)	unit for measuring mass
capacity	the amount a container can hold
volume	the amount of space an object takes up
millilitre (ml)	unit for measuring capacity or fluid
centilitre (cl)	unit for measuring capacity or fluid
litre (l)	unit for measuring capacity or fluid
millimetre (mm)	unit for measuring length
centimetre (cm)	unit for measuring length
kilometre (km)	unit for measuring length

Converting Mass



kg

↗ × 1000

↖ ÷ 1000

g

1000g = 1kg


$\frac{1}{10}$ kg = 0.1kg = 100g

$\frac{1}{4}$ kg = 0.25kg = 250g

$\frac{1}{2}$ kg = 0.5kg = 500g

$\frac{3}{4}$ kg = 0.75kg = 750g

Converting Capacity



l

↗ × 1000

↖ ÷ 1000

ml

1000ml = 1 litre

$\frac{1}{10}$ l = 0.1l = 100ml


$\frac{1}{4}$ l = 0.25l = 250ml

$\frac{1}{2}$ l = 0.5l = 500ml

$\frac{3}{4}$ l = 0.75l = 750ml

$\frac{1}{100}$ l = 0.01l = 10ml

Converting Length



× 1000

↗

km → **m** → **cm** → **mm**

↖

÷ 1000

↖

÷ 100

↖

÷ 10

1000 metres = 1 kilometre	$\frac{1}{4}$ km = 0.25km = 250m
100cm = 1m	$\frac{1}{2}$ km = 0.5km = 500m
10mm = 1cm	$\frac{3}{4}$ km = 0.75km = 750m
$\frac{1}{10}$ km = 0.1km = 100m	

Units of Time

<p>Minute</p> <p>1 minute = 60 seconds</p>	<p>Hour</p> <p>1 hour = 60 minutes</p>	<p>Day</p> <p>1 day = 24 hours</p>	<p>Week</p> <p>1 week = 7 days</p>	<p>Fortnight</p> <p>1 fortnight = 2 weeks</p>	<p>Month</p> <p>January = 31 days February = 28 days (29 on a leap year) March = 31 days April = 30 days May = 31 days June = 30 days July = 31 days August = 31 days September = 30 days October = 31 days November = 30 days December = 31 days</p>
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<p>Year</p> <p>1 year = 12 months = 52 weeks = 365 days</p>	<p>Leap Year</p> <p>1 leap year = 366 days</p>	<p>Decade</p> <p>1 decade = 10 years</p>	<p>Century</p> <p>1 century = 100 years</p>	<p>Millennium</p> <p>1 millennium = 1000 years</p>
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Real Life

- Cooking - how many grams of flour do you need from a 1kg bag?
- Time - I am going on holiday in a fortnight, how many days / weeks is this?
- Age - my child is 26 months old - how old is this in years and months?
- Making drinks - using a 1L bottle of squash to pour out 25ml

Zooming out...

- Mass** - Early Babylonian and Egyptian records and the Bible indicate that the means for weighing standards were seeds and stones.
- As societies evolved, measurement units became more complex.
- The imperial measurement system was introduced to make sure everything used the same weight of measurement
- The metric system was introduced after this, and this was a change in measurements (which is what we use today)

Prior Knowledge

100 centimetres = 1 metre

10 millimetres = 1 centimetre

Millimetres (mm)

Centimetres (cm)

Metres (m)

$\div 10$
 $\times 10$

$\div 100$
 $\times 100$

317cm	
300cm	17cm
3m	17cm
3m 17cm	