

L.O. To understand the difference between imperial and metric units and how we can convert between these two units of measure.



- In the olden days, we used to weigh things differently.



Imperial Units of Measure

<https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zwbndxs>

- Miles, feet and inches are old units of length. These are known as **imperial units of length** but are not now commonly used in maths.
- There are 12 inches in a foot.
- An inch is roughly equal to 2.5 centimetres.
- A foot is roughly equal to 30 centimetres.
- A mile is roughly equal to 1.6 kilometres, *but for ease of conversion it is easier to think of a mile being roughly 1.5 kilometres.*

These are the “imperial” measurements for weight.

- **Stones**

- A sack of grain weighs about 12 stones.



= 12 stones

- **Pounds**

- A bag of sugar weighs 2 pounds.



= 2 pounds

- **Ounces**

- An apple weighs about 4 ounces.



= 4 ounces

1 stone = 14 pounds.

1 pound = 16 ounces.



But I don't know my
14 and 16 times
tables! Working with
imperial units makes
my brain hurt...
(thought everyone)

So we invented easier units.

Metric Units of Measure

- <https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zqf4cwx>
- The metric system is used to measure the length, weight or volume of an object. Length is measured in **millimetres** (mm), **centimetres** (cm), **metres** (m) or **kilometres** (km).
- 1 cm = 10 mm
- 1 m = 100 cm
- 1 km = 1000 m
- 1 cm is about the width of a staple
- 1 m is about the width of a single bed
- Weight is measured in **grams** (g) and **kilograms** (kg). Volume is measured in **millilitres** (ml) and **litres** (l).
- 1 kg = 1000 g
- 1 l = 1000 ml
- 1 kg is the weight of seven apples
- 1 l is the volume of a carton of orange juice

Useful facts to help you estimate weight.

- **Grams.** 1 gram is about the weight of one Skittle sweet.



- **Kilograms.** 1 kilogram is about the weight of a large dictionary.

