



Topic: Measurement—Converting Units

Year: 6

Strand: Measurement

What should I already know?

Previous learning that will help you with this unit of work:

- Convert between adjacent metric units of length, mass and capacity
- Know rough equivalents between inches and cm, feet and cm, kg and lb, pint and ml
- Use decimal notation to two decimal places when converting between metric unit



What will I know by the end of the unit?

Key Vocabulary	
Mass	In physics, the mass of an object is the amount of physical matter that it has.
Weight	In everyday English weight is often confused with mass. In mathematics, and physics, the weight of a body is the force exerted on the body by the gravity of the earth
Length	The length of something is the amount that it measures from one end to the other along the longest side.
Distance	The distance between two points or places is the amount of space between them.
Metric	Unit of measurement in the metric system. Metric units include metre, centimetre, millimetre, kilometre, gram, kilogram, litre and millilitre.
Imperial	A unit of measurement historically used in the United Kingdom and other English speaking countries. Units include inch, foot, yard, mile, acre, ounce, pound, stone, hundredweight, ton, pint, quart and gallon. Now largely replaced by metric units.
Milli-	Milli- is added to some nouns that refer to units of measurement in order to form other nouns referring to units a thousand times smaller.
Centi -	denoting one hundredth
Kilo-	Is added to some nouns that refer to units of measurement in order to form other nouns referring to units a thousand times bigger
Equivalent	If one amount or value is the equivalent of another, they are the same.
Convert	Changing from one quantity or measurement to another.
Abbreviation	An abbreviation is a short form of a word or phrase, made by leaving out some of the letters or by using only the first letter of each word.
Adjacent	If one thing is adjacent to another, the two things are next to each other.

Which unit of measure would you choose to measure the mass of an elephant?	Kilograms (kg)
Which unit of measure would you choose to measure the volume of water in a bath?	Litres (l)
What unit of length is 1000 times bigger than a metre?	Kilometre (km)
What unit of volume is 1000 times smaller than a litre?	Millilitre (ml)
Convert 8 km into miles	5 miles
Convert 10 miles into kilometres (km)	16 kilometres (km)
Convert 1 inch into centimetres (cm)	2.5 centimetres (cm)
How many ounces (oz) are in 1 pound (lb)?	16 ounces (oz)
How many pints in a gallon?	8 pints

Objectives

- Convert between non-adjacent metric units length and mass from the smaller unit to the larger unit; e.g. centimetres to kilometres
- Convert between non-adjacent metric units length and mass from the larger unit to the smaller unit; e.g. kilometres and centimetres
- Convert between non-adjacent time units; e.g. hours to seconds

Useful Websites

<https://www.bbc.co.uk/bitesize/topics/zcpnb9q>