Convert Units of Measurement: Mass

Convert: Change one thing into another.



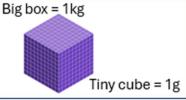
Unit of measurement: A word or label we use to say how much of something there is.





Mass: How much matter is inside something. Different units are used to measure different things. Grams (g) measure small items like paperclips, kilograms (kg) larger things like bags of flour.

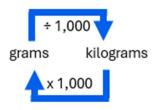
1 kilogram = 1,000g



Imagine 1 kilogram is a big box and 1 gram is a tiny cube. It takes 1,000 tiny cubes to fill the big box. Converting units of mass is like working out how many big boxes you need, or how many cubes you can put into the big box.

Converting grams to kilograms

How many big boxes will I need when I put my tiny cubes into groups of 1,000?



Converting kilograms to grams

How many tiny cubes are in each of the big boxes when I unpack them?

	÷ 1,000			
Grams		Kilograms		
250g		0.25kg		
500g		0.5kg		
750g		0.75kg		
1,000g		1kg		
2,000g		2kg		
5,000g		5kg		
		-		

x 1,000

Base-10 blocks, place value chart, and everyday items that weigh 1 kilogram and 1 gram.

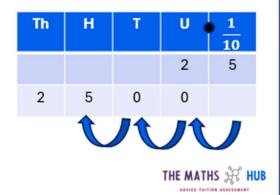
Convert 1,500g to kg

 $1500 \div 1000 = 1.5$ kg

Th	Н	Т	U	1 10	
1	5	0	0		
			1	5	
UUU					

Convert 2.5kg to g

 $2.5 \times 1000 = 2500g$



Look out for word problems where amounts are given in both grams and kilograms. To answer these questions, you may need to convert all the values to the same form either all grams or all kilograms.

Calculator skills







