

Autumn 2 Week 2 Maths Lesson 2 -LO: To use, read and write in standard units of mass

The standard units of mass you need to use are;

Kilograms (kg), grams(g) and tonnes(t).

You also need to know the conversion equivalents;

1 tonne = 1,000 kilograms

1 kilogram = 1,000 grams

Finally you need to know how to convert standard units of length;

To convert tonnes to kilograms multiply by 1,000 - **to convert kilograms to tonnes divide by 1,000**

To convert kilograms to grams multiply by 1,000 – **to convert grams to kilograms divide by 1,000**

This table shows the relationship between the metric units.

1,000	100	10	1	0.1	0.01	0.001
tonnes	-	-	kilograms	grams		
8	0	0	0			
			4	0	0	0
				3	7	0

8 tonnes = 8,000 kilograms
4 kilograms = 4,000 grams
370 grams = 0.37 kilograms

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Copy and complete the tables to convert between different units of mass. The first one in each table has been done for you. Remember to use the conversion instructions in slide 1.

Tonnes (t)	Kilograms (kg)	Kilograms (kg)	Grams (g)
6.1	6,100	6.1	6,100
7.2		8	
8.35		9.46	
9.015		7.027	
10.01		11.02	
0.09		0.081	
	5,625		5,000
	1,071		2,220
	2,100		3,200
	1,000		4,050
	795		899

Finally, have a go at these questions

Q1. Write these masses in order, starting with the **lightest**.

1.25 kg, 0.99 kg, 1.025 kg,
0.009 kg

Q2. Here are four masses.

2 kilograms, 1 tonne, 800 grams, $\frac{1}{2}$ kg

Write the masses in order, starting with the **lightest**.