






Steps to Success

Date	08.02.21
Subject/s	Maths
Learning Objective  	To convert units of weight

SA 	TA 
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Success Criteria ✓! 	I know that 1000 grams is equal to 1 kilogram.		
	I can multiply by 1000		
	I can divide by 1000.		
Support	Independent	Adult Support ()	Group Work

Lockdown learning: DC

Pre-task

Convert these units:

178kg = 178,000 g $178 \times 1000 = 178000$

5.695 kg = 5695g $5695 \div 1000 =$

Teacher led

Fluency

1 kg
1 0 0 0 g

1 kilogram =
1 0 0 0 grams.

1. 2 6 3 kg $\times 1000 = 1263g.$

6 2 9 2 g $\div 1000 = 6.292kg$

K G \rightarrow \times \rightarrow G

G \rightarrow \div \rightarrow K G.

$$0.06 \text{ kg} = 60 \text{ grams.}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
0	0	6	0	•	0	6	

$$0.435 \text{ kg} = 435 \text{ g}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
0	4	3	5	•	0	4	3
							5

$$2.062 \text{ kg} = 2062 \text{ g}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
2	0	6	2	•	0	6	2

$$0.699 \text{ kg} = 699 \text{ g}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
0	6	9	9	•	6	9	9

$$1727 \text{ g} = 1.727 \text{ kg}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
1	7	2	7	•			
			1	•	7	2	7

$$3628 \text{ g} = 3.628 \text{ kg}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
3	6	2	8	•			
			3	•	6	2	8

$$29 \text{ g} = 0.029 \text{ kg}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
		2	9	•			
			0	•	0	2	9

$$5509 \text{ g} = 5.509 \text{ kg}$$

1000 _g	100 _g	10 _g	1 _g	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
5	5	0	9	•			
			5	•	5	0	9

A bag of sweets weighs 3.25kg

500 grams have been eaten.

How much is left.

$$3.25 \times 1000 = 3250g$$

$$\begin{array}{r} 3250 \\ - 500 \\ \hline 2800 \end{array}$$

2800 grams

2.8kg.

A can of beans weighs 150g.

What do 10 cans weigh?

$$150 \times 10 = 1500g$$

1.5kg

Fluency A

$$1) \quad 0.080 \text{ kg} = \quad \text{g}$$

$$2) \quad 0.300 \text{ kg} = \quad \text{g}$$

$$3) \quad 8.290 \text{ kg} = \quad \text{g}$$

$$4) \quad 5.296 \text{ kg} = \quad \text{g}$$

$$5) \quad 0.429 \text{ kg} = \quad \text{g}$$

$$6) \quad 1727 \text{ g} = \quad \text{kg}$$

$$7) \quad 68 \text{ g} = \quad \text{kg}$$

$$8) \quad 429 \text{ g} = \quad \text{kg}$$

$$9) \quad 6970 \text{ g} = \quad \text{kg}$$

$$10) \quad 21 \text{ g} = \quad \text{kg}$$

Fluency B

- 1) A bag of crisps weighs 2.35 kg
700 g have been eaten.

How much is left?

- 2) A can of fish weighs 165 g.
What do 10 cans weigh?

_____ kg.

- 3) Sugar cubes weigh 10 g.

How many cubes are there in a
1.2 kg box?

4) A chef is cooking 120 meals.

Each meal needs 200g of potatoes.

How many 6 kg bags of potatoes are needed?

5) A bag containing 30 packets of biscuits weighs 4.1 kg.

Each packet of biscuite weighs 130g.

How heavy is the box?

Problem Solving and Reasoning

Use it!



A parcel weighs 439 grams. How much would 27 parcels weigh? Give your answer in kilograms.

Use it!



To bake buns for a party, Keeley used these ingredients:

- 600 g caster sugar
- 0.6 kg butter
- 18 eggs (792 g)
- $\frac{3}{4}$ kg self-raising flour
- 10 g baking powder



What is the weight of the unbaked products?
Give your answer in kilograms.

Use it!



Laura buys 3,500 grams of potatoes and 1,500 grams of carrots.



She pays with a £5 note.
How much change does she get?

Show all of your working out.

Further Challenge

What's My Weight?

The picture shows four equal weights on one side of the scale and an apple on the other side.

What can you say that is true about the apple and the weights?

If the apple weighs 180g, how heavy must one weight be?

If the apple weighed 375g, how heavy would one weight be?

