WALT convert between kilo units.

- Understand the meaning of 'Kilo'
- Convert units between kilometres and metres
- Convert units between kilograms and grams
- Count carefully



Kilometres and metres are metric units.

What is a metric unit?

https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zqf4cwx

Kilo at the beginning of a word means one thousand.

Whenever you see kilo, it means it's 1000 of whatever the word that follows it is.

E.g. Kilometres is kilo (one thousand) metres.

Kilograms is kilo (one thousand) grams.

Kilograms and grams

Kilograms and grams are units used to measure the weight of something (how heavy it is). You may have used them yourself, when baking a cake! See if you can find something in your kitchen that weighs 1kg, and something that weighs 500g. (Psst: flour, sugar and pasta are usually packaged in these sizes!) What is the difference in weight? What if you had 2 things that weighed 500g and one thing that weighs 1kg?

You can convert kilograms and grams between each other, as you will have in previous school years.

The rate of conversion is: 1kg = 1000g (1g × 1000 = 1 kg, 1kg ÷ 1000 = 1g.)



Take a look at this conversion in action by clicking the thinking cap! ③

Kilometres and metres

Kilometres and metres are units used to measure the length of something - you'll have heard the term metres used a lot lately!

If you spread your two arms out as far as they can go beside you, that's about (but not exactly) 1 metre.

Extra idea: if your adult has a tape measure, have a go at measuring things around your house - what is the longest thing you can find in metres?

The rate of conversion for kilometres to metres is...

1km = 1000m

1m × 1000 = 1 kilometre (1 km) 1km ÷ 1000 = 1 metre (1m)

But you already guessed that, didn't you? 🙂



Added slide

To convert mass, we use multiplication or division. When dealing with kg and g, it is by 1000. So, to find what kg are as g, you multiply by one thousand. To find out what grams are in kilograms, you divide by 1000.

Use your place value to help you do this.



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Ε

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Kilograms and Kilometres – different unit, still 'kilo', so still 1000.

Convert the distance of each journey.



Ε

Metres and Kilometres – different unit, 'kilo' still means 1000.

Convert the distance of each journey.





Is Sam correct? Explain your answer.

HINT:

To solve this, you first need to convert the fraction into a decimal.

Then, read the rest of the question carefully to figure out your operation.

E



Is Sam correct? Explain your answer.

Sam is correct. $1\frac{1}{4}$ km = 1250m 1250 × 5 = 6250



Here are the prices of grapes at two different shops. At which shop are the grapes better value for money? Explain how you know.



To solve this, you need to convert the kg to grams.

Then, look at the difference between your two new numbers (grams), and you will see which is better value (less money).

E

Here are the prices of grapes at two different shops. At which shop are the grapes better value for money? Explain how you know.



Shop A is better value for money.

 $\frac{3}{4}$ kg = 750g. 750g is half of 1500g.

Buying 750g from shop B is more than half of the cost of shop A.

Now complete your activity. You only need to complete one sheet - choose your challenge level. 1 = Unsure. 2= Sounds good! 3= Confident.

Stuck? Click us!

<u>Grams to Kilograms</u> Video <u>Kilometres and metres video</u>

