

NUMBER SLIDE

Using the number slide assists students in converting kilograms (kg) to grams (g)

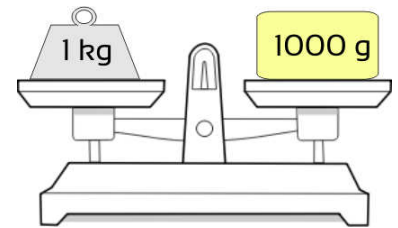
Many students become confused as to how metric units are converted. The Number Slide app helps students visualize the way numbers “slide” to their new values.

Complete the worksheet WS 1 while working through this lesson plan:

1 kg = 1000 g

What does this mean:

- If possible show students a balance scale with 1 kg on one side and 1000 g on the other. The scales should balance.



Say: 1 kg = 1000 g

- To help students from getting mixed up between mg and kg, a little mnemonic is to think:

“milli”



This is a

PREVIEW

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Introduce t

- Enter:**
- Say:** v
- Ask:** V
- thousa
- Click:**
- the th
- Have
- Ask:** To convert 5.4 kg to g what will I need to do?

(enter 5.4 x 1000)

Enter: 5.4 > OK

Ask: Next step? (multiply 5.4 by 1000)

Click: x > 1000

Ask: Which way did the 5.4 move? (It moved three places to the left.)

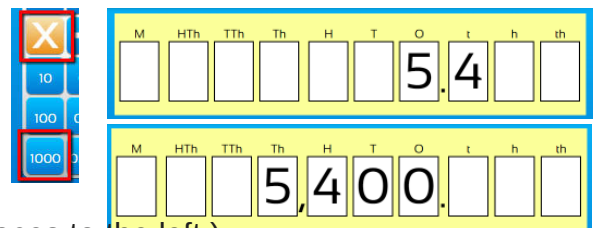
Why were there only two zeros added? (because only 2 were needed to “hold the place”)

Did the number get larger or smaller? (larger)

Why does the number get larger when we convert from kg to g? (because there are a 1000 g in a kg, so the number of kg is multiplied by 1000)

Have the students say and write: 1 kg = 1000 g

Work through the rest of the examples on the first section of the worksheet with the students using the Number Slide Gadget.



NUMBER SLIDE

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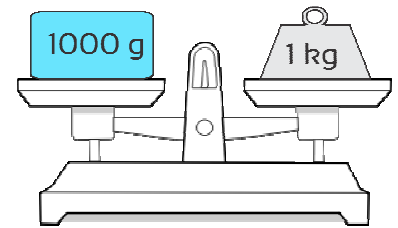
This really is the same process but backwards. Dividing by a thousand is required to convert from g to kg.

Complete the second section of worksheet WS 1 while working through this lesson plan:

1000 g is the same as 1 kg

What does this mean:

- On the balance scales swap the weights of 1000 g and 1 kg around. The scales should balance again.
- Say:** Nothing has changed: the $1000\text{ g} = 1\text{ kg}$, except now if we convert from 1000 g we have to divide by one thousand



- Ask:** ...
- What ...
- What ...



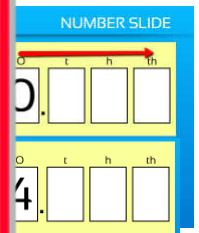
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Introduce t

- Enter:** ...
- Say:** v
- Ask:** V (place)
- Click:** the on
- Ask:** V
- Have



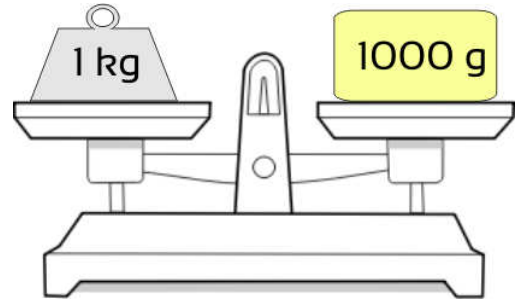
- Enter:** 250 > OK
- Ask:** To show 250 g as kg what do I have to do? (divide 250 by 1000)
- Click:** ÷ > 1000



- Ask:** Which way did the 250 move? (It moved three places to the right.)
- What happened to the zero on the end? (it is a trailing zero so it is not needed)
- Why was there a zero added at the front? (because a zero is needed to show there are no ones)
- Did the number get larger or smaller? (smaller)
- Why does the number get smaller when we convert from g to kg? (because there are 1000g in a kg , so the number of g is divided by 1000)
- Have the students say and write:** $1000\text{ g} = 1\text{ kg}$
- Work through the rest of the examples** on the second section of the worksheet WS 1 with the students using the Number Slide Gadget.



Converting kg to g:



1) 1 kg = _____ g

2) 3 kg = _____ g

3) 5.4 kg = _____ g

4) 3.35 kg = _____ g

5) 16.0

6) 0.5

7) 0.42 kg = _____ g



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Converting

1) 1,00

2) 8,000 g = _____ kg

3) 2,500 g = _____ kg

4) 400 g = _____ kg

5) 90 g = _____ kg

6) 2 g = _____ kg

7) 6,100 g = _____ kg

8) 20,000 g = _____ kg

9) 150 g = _____ kg