



Math Virtual Learning

4th Grade Measurements

Metrics: Weight

April 10, 2020



4th Grade Math
Lesson: April 10, 2020

Learning Target:

Students will convert weight measurements from larger units to smaller units using the metric system.

Background:

- Students learn to convert from kilograms to grams
- Students learn to choose best unit of measurement for a variety of objects

Let's Get Started:

Watch Videos:

1. [Khan Academy](#): Units of Weight Grams and Kilograms
2. [Matholia](#): Grams to Kilograms to Grams

Remember!

1 kilogram =
1,000 grams

Practice #1: Kilograms to Grams

Remember!

Kilogram = kg
Gram = g

2 kilograms = _____ meters

5 kilograms = _____ grams

1. There are 1,000 grams in one kilogram
2. You need to find 2 sets of 1,000 grams. In order to solve for the number of total grams, you would need to multiply the number of kilograms by 1,000.
3. $2 \times 1,000 = 2,000$

2 kilograms = 2,000 meters

1. There are 1,000 grams in one kilogram.
2. You need to find 5 sets of 1,000 grams. In order to solve for the number of total grams, you would need to multiply the number of kilograms by 1,000.
3. $5 \times 1,000 = 5,000$

5 kilograms = 5,000 meters

Remember!

1 kilogram =
1,000 grams

Practice #2: Kilograms to Grams

Remember!

Kilogram = kg
Gram = g

1. 8 Kilograms = _____ Grams
2. 14 Kilograms = _____ Grams
3. 9 Kilograms = _____ Grams
4. 12 kg = _____ g
5. 4 kg = _____ g
6. 22 kg = _____ g

Remember!

1 kilogram =
1,000 grams

Practice #3: Kilograms or Grams

Remember!

Kilogram = kg
Gram = g

Which unit would be best in order to measure the weight of following things? Kilograms or grams?

1. A small empty container? _____
2. A couch? _____
3. An eraser? _____
4. A car? _____
5. The weight of someone? _____
6. A chapter book? _____

Practice on your own:

Go to this website: [IXL](#)

Practice Converting between grams and kilograms.

Which is more, 626 grams or 1 kilogram?

626 grams

1 kilogram

neither; they are equal

Submit

MORE Practice on your own:

Go to this website: [IXL](#)

Choose which unit, kilograms or grams, to use to measure the mass of different objects.

Which is a better estimate for the weight of a pen?

4 kilograms

4 grams

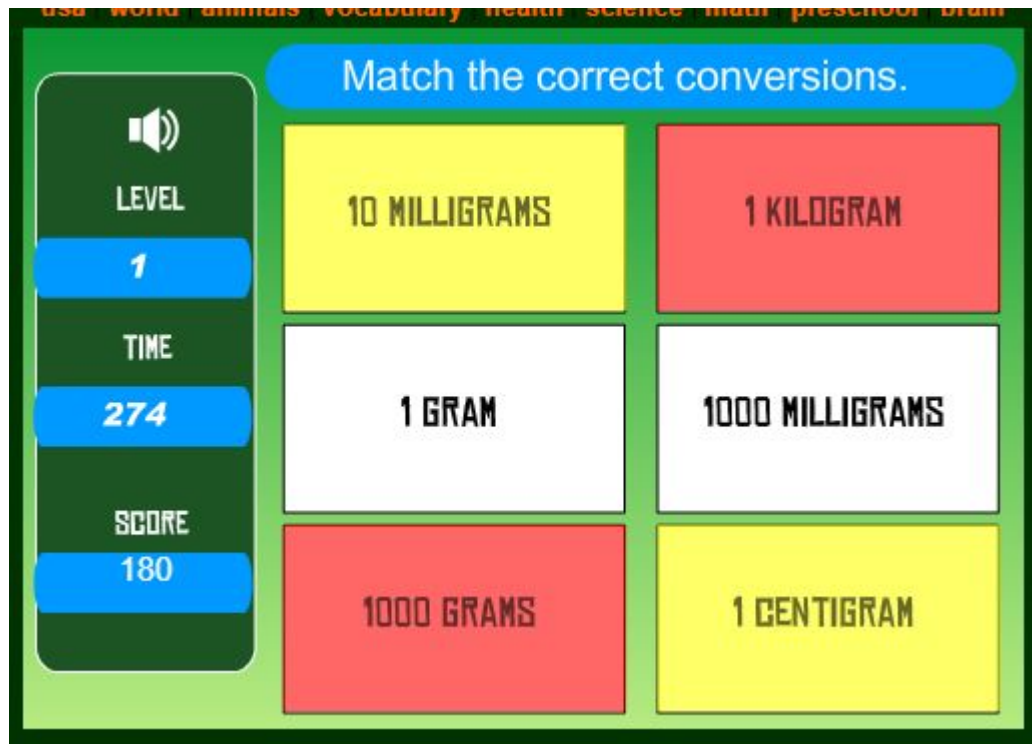
Submit

MORE Practice on your own:

Go to this website: [Matching Math](#)

This game will help you convert metric length measurements.

1. Click on the icon on the top right of this page.
2. Choose Relaxed or Timed Mode
3. Select the matching pairs of measurements.
4. The more levels you go up, the more challenging the matches become!
5. Enjoy and learn!



Practice:

Complete this page in your packet.

Metric Weight Conversions

Convert Kilograms (kg) to Grams (g)

1) 32 kg = _____g

6) 16 kg = _____g

2) 70 kg = _____g

7) 122 kg = _____g

3) 100 kg = _____g

8) 913 kg = _____g

4) 8 kg = _____g

9) 5 kg = _____g

5) 14 kg = _____g

10) 59 kg = _____g

Click here to open worksheet.



11a) A family bought 2 kilograms of mulch. How many grams of mulch do they have? _____

Self Check:

Go tell someone in your home your answers.



1. Was this lesson?

- easy,
- just right
- hard

2. Find 10 items in your house. Sort them by what unit of measurement you would use to weigh them.