

COMMON CORE STANDARDS



MASS UNIT

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COMMON CORE WEIGHT STANDARDS

Measurement and Data

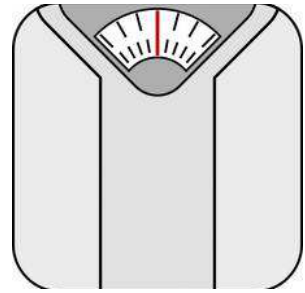
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

2. Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.

TEACHER NOTES

With the implementation of the Common Core Standards, one of the most significant changes to my state's math curriculum was the addition of mass to the measurement standards. This unit was designed to meet those new standards and you'll find a combination of concept building lessons, basic skills, and games for reinforcement. Each lesson builds on the previous lesson by first introducing the concept, then allowing students to make comparisons without using any unit of measure. It then progresses into nonstandard units of measure and transitions into standard units of measure (all within the metric system). If you've purchased any of my other math units, you'll know that many of my lessons are hands-on and require students to actually DO the math. In this unit, students will weigh objects using different tools, so it is important to have access to the following manipulatives: balance scales, spring scales, digital scales, gram weights, marbles, small and large paperclips, centimeter cubes, and other common classroom items.

What is Mass?



Materials

- Variety of scales (balance scales, digital scales, spring scales, platform scales, etc.)
- Variety of classroom items
- What is Mass? Recording sheet

Mini Lesson

Have students complete the top portion of the recording sheet (Mass KWL).

Then using the KWL chart as a spring board, describe the meaning of mass. I like to define it as, “the amount of matter something contains”. I also use this time to explain that mass is similar to weight, because “weight is the measurement of the pull of gravity on an object”.

Work Time

As a whole group show students a variety of methods to find the mass of objects. Since I typically use this as an introductory lesson, I don't place a great emphasis on units of measure.

1. Show students how to use a balance scale and explain that the purpose of a balance scale is to compare weights.
2. Model how to correctly use a platform scale and discuss why we would need to use a spring scale.
3. Give students a few examples of different types of digital scales and show students how to read a digital scale.

After introducing the different types of scales, allow students to practice using the different types of scales.

Closing

Have students complete the bottom portion of the student recording sheet, where they will describe three different ways to measure objects.

Name _____

Date _____

What is MASS?

K	W	L

Describe mass in your own words.

Balance Scale

I would use this to measure...

Here's a picture

Platform Scale

I would use this to measure...

Here's a picture

Digital Scale

I would use this to measure...

Here's a picture

Name _____

Date _____

MASS WORD PROBLEMS 1

If a carrot has a mass of 115 grams, and an orange has a mass of 145 grams, what is the total of the two foods?

A banana has a mass of 120 grams and a watermelon weighs 3,000 grams. How many more grams is the watermelon than the banana?

If a strawberry has a mass of 24 grams, and a mango has a mass of 200 grams. How many more grams is the mango than a strawberry?

Three apples have a mass of 600 grams. If each apple has the same mass, how many grams is each apple?

If three lemons have a mass of 150 grams each, what is the mass of 4 lemons?

Five strawberries have a mass of 125 grams. How many grams is each strawberry?

Thank YOU!

I hope that you and your students enjoy this math unit! If you have any questions or concerns, feel free to email me at ashleigh_60@hotmail.com. I'll try and respond asap. If you like this product, you may want to check out some of the other items in my [TpT store](#), where I have many other math units, work station ideas, and more! You can also visit my blog for lots of ideas and free pintables.



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