

Supplemental Activity: Liters and Milliliters

Supplies Needed:

- 3.7_SW_Liter-and-Milliliter-Worksheet
- 3.7_SW_Liter-Conversion-Worksheet
- Writing utensils

Length of Time to Complete:

- 5 minutes to introduce activity
- 20 minutes to complete activity

Audience (grades): 3rd

Common Core Standards:

- Math: Measurement and Data: 3.2
 - 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.
- Math: Number and Operations in Base Ten: 3.2
 - Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

Lesson:

Raise your hand and tell me why it is important to stay hydrated?

(Staying hydrated is incredibly important for our health. Over 60% of our body is made of water!)

What can happen if we become dehydrated?

(Being dehydrated can make us feel sleepy, hungry or crabby. It can also make it hard to concentrate, cause a headache or cause an upset stomach.)

What is the best beverage to drink to stay hydrated?

(Water)

How much water should you drink each day?

(At a minimum, you should drink six cups. If you are very active or it is really hot outside, you will need more water.)

Today, we are going to work on a math worksheet that requires us to think about measuring liquids.

Raise your hand if you know what units we measure liquids in?

(We can measure liquids using liters [this is the metric system], or we can measure liquids using cups [this is the imperial system].)

In the United States, we usually measure liquids using the imperial system. However, in most parts of the world, they measure liquids in liters. In science class, you will always use the metric system for measuring liquids.

Today, we'll learn about the liters and how to convert liters into milliliters **(Distribute the Liter Worksheet.)**

How much liquid can a liter hold?

(About four cups)

A milliliter is much smaller; it can only hold a few drops. **(Have students complete the liter worksheet and go over the answers. Then, distribute the Liter Conversion Worksheet.)**

Write on the board:

1000mL = 1L

To convert from milliliters to liters, you need to multiply by 1,000 or add three zeros.

To convert from liters to milliliters, you need to divide by 1,000 or move the decimal place to the left three spaces.

(Have students complete the liter conversion worksheet and go over the answers as a class.)