**Volume and Play Doh**

*6th grade*

Purpose:

This activity will allow students to develop their understanding of volume through the use of authentic objects and practice with measuring and implementing the formula to determine volume. They will determine whether Play-Doh loses volume after it’s played with or if it the amount of Play-Doh never changes.

Goals:

* Students will determine the measurements of a cylindrical object.
* Students will calculate volume of a cylindrical object.
* Students will analyze and evaluate volumes calculated.

Objectives:

* Given three different-colored cans of play-doh, a calculator, ruler, and a logbook, students will measure and calculate the volume of the cans of play-doh before and after playing.
* Given the measurements and calculations before and after play, students will draw conclusions regarding data taken.

Materials:

* 3 cans different colored Play-Doh
* Calculator
* Ruler
* Journal or logbook

Procedure:

**1.** Measure the volume of each color Play-Doh right out of the canisters – they will be in a cylindrical shape. Record the volume and weight in your logbook.

**2.** Play with each color of Play-Doh for about ten minutes. Mush it, smash it, separate it and shape it into different shapes.

**3.** Form each color of Play-Doh back into a cylindrical shape. You can use the canisters to help you if you need to.

**4.** Measure the volume of each color of Play-Doh again and record in your journal or logbook.