

Play-dough

Introduction

Today, we will use chemistry to make play-dough! To make the play-dough we are going to have to do some **measurements**.

Key Concepts

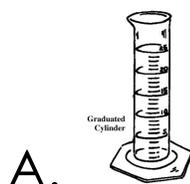
Measurement: A number that shows the size or amount of something. Usually the number describes a standard measurement, such as an inch or a foot.



Warm-up!

Measuring is very important in science, especially in chemistry!

1. Which is easier to measure with? The **cylinder** (A) or the **beaker** (B)?



Why is one better than the other?

2. Lets test our measuring skills using **syringes**!

- Use your syringe to measure (with no bubble): **1 mL, 5 mL, 8.5 mL**
- Did you know that “mL” stands of “milli-liter”?
 - “milli” means thousand.
 - 1 Liter of coke has 1000 mL!
- Can you think of a way to measure 15 mL using your syringe?



This activity is going to require accurate measuring!

Supplies

1/2 cup flour
2 tablespoons of salt
1/4 cup of warm water
3 drops food coloring or kool-aid

Instructions

Step 1. Label a bowl with your name. When doing science, it is important to stay organized.

Step 2. Get in line at the "Materials Table". At the "Materials Table", mix **1/2 cup** of flour with **1/8 cup** salt.

Step 3. Mix it with your spoon!

Step 4. Slowly add in 1/4 cup of warm water and 3 drops of food coloring to your dough and mix!

Step 5. Assess your dough.

- Does your dough stick to your hands? If yes, add more flour.
- Is your dough crumbling? If yes, add more water!

Step 6. Store your dough in a sealed plastic bag when you are finished playing with it to keep it from drying out.

In step 5, we had to add more flour or more water to make the dough perfect play dough. **Can you think of a way we could eliminate this step?**