

LAVA LAMP

PURPOSE

I found it interesting that how simple at home ingredients could make a lava lamp. I wanted to learn how mixing all these ingredients created a DIY lava lamp.

QUESTION

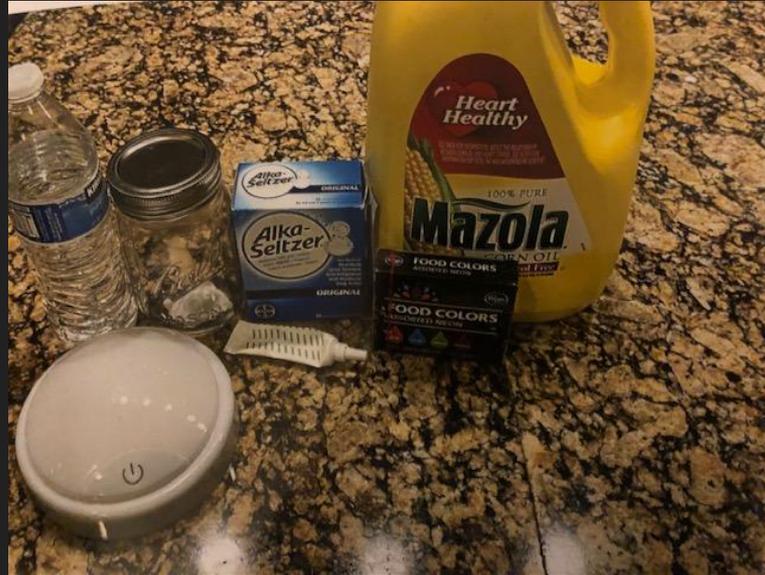
Do all the materials actually make a functional lava lamp?

HYPOTHESIS

I predict that the gel food coloring will have a different outcome than the liquid food coloring.

MATERIALS

1. Gel and liquid food coloring
2. A portable light
3. Empty glass cup or mason jar
4. Alka-seltzer tabs
5. Water
6. Oil



PROCEDURE

1. First, gather all your ingredients on a table
2. Then, grab your mason jar, oil, and water. Add $\frac{1}{3}$ of water to your mason jar then fill the empty part with oil .
3. Next you will put 6 drops of food coloring. Make sure not to add too many because then it would be dark to see.
4. After, you will break apart an Alka-seltzer in half and add it into your lava lamp.
5. Finally, Add your light under your mason jar to watch your lava lamp come to life.

PICTURES



INDEPENDENT VARIABLE

The texture of the food coloring I used gel and liquid food coloring.

CONTROLLED VARIABLE

Was the same amount of measurements of the liquids along the same amount of drops in every experiment.

DEPENDENT VARIABLE

I observed that the gel food coloring didn't dissolve into the water enough to create the perfect lava lamp.

RESULTS

I used the following two pictures to describe the results. The one on the top shows how the gel food dye stayed at the bottom even after I added the Alka-seltzer. The one on the bottom shows that the liquid food dye dissolved well and after added the alka-seltzer it created the perfect lava lamp.



CONCLUSION

I concluded that the texture of the food coloring had a lot to do with the outcome of my lava lamp. The liquid one was a better option for a better lava lamp. Next time I will try and use a different type of oil to see if that will make a change to how the food coloring blends with the oil and water mixture.