Make your own lava lamp!

Get ready to make your very own lava lamp! In this activity, you will learn about density and experiment with chemical reactions!

What you will need:

- Water
- vegetable Oil
- Empty Water Bottle
- Food Colouring
- Alka-Seltzer Tablet
- Funnel

Instructions

1.Fill the plastic bottle about 1/4 full with water using the funnel.

2.Slowly pour vegetable oil into the bottle until it is almost full. Leave a small gap at the top.

3.Wait for the oil and water to separate. The water will sink to the bottom of the bottle because it is denser than the oil.

4.Add 2 to 3 drops of food colouring and observe what happens. What happened to the drops? Did they dissolve immediately, why or why not?

5.Break an Alka-Seltzer tablet into small pieces and drop them into the bottle one at a time. Watch as the reaction causes bubbles to form and move up and down in the bottle, creating a lava lamp effect.

Scientist's Observations:

What happened when you added the Alka-Seltzer tablet?

What Happened when you added the oil to the water?

What happened when you added the drops of food colouring?

Congratulations! You have created your very own lava lamp. Now you can experiment with different colors and see how they interact with each other. You can also try using different amounts of water and oil to see how it affects the movement of the bubbles. Have fun and keep exploring the fascinating world of science!