



DIY Lava Lamp

Experiment with Liquid Density

INTRO For this experiment, we are going to make our own lava lamp! Encourage your students to make observations about this homemade lava lamp.

- SUPPLIES**
- 1 Empty Bottle & Lid
 - 1 Bottle of Water
 - Cooking Oil
 - Food Coloring
 - Alka-Seltzer Tablets

- VOCAB**
- Liquid
 - Density
 - Dissolve

- INSTRUCTIONS**
1. Fill the empty bottle 1/3 of the way full with water.
 2. Once you have water in the bottle, add a few drops of food coloring and mix.
 3. Add cooking oil until you almost reach the top of the bottle. Allow a few moments for the water and oil to settle into place.
 4. Break an Alka-Seltzer tablet into four pieces. One at a time, drop the pieces into the bottle and watch the magic. As soon as the tablet hits, it will start to fizz and the colored water will erupt.
 6. The bubbles will stop as soon as the tablet dissipates. They will start up again as soon as you add another tablet.

- DISCUSS**
- Why don't the water and oil mix?
 - What happens with the Alka-Seltzer tablet mixes with the water?