



# MAKE YOUR OWN LAVA LAMP!

Make sure to use Adult Supervision!

## What you'll need:

- Clear plastic bottle
- Oil
- Water
- Funnel
- Food Coloring
- Alka-Seltzer Tablet
- Glitter (optional)



## Directions

1. Fill your plastic bottle half full with oil
2. Fill the remaining half with water
3. Add 10 drops of the food coloring (add glitter in this step as well)
4. Break the Alka-Seltzer tablet into fourths and place  $\frac{1}{4}$  of the tablet into the bottle. (Do not let a child handle the AlkaSeltzer tablet as it is medication)



## ***THE SCIENCE BEHIND IT***

Both the water and the food coloring sink to the bottom of the bottle while the oil floats at the top because water is heavier than oil. The food coloring dissolves in the water but not in the oil. When you drop AlkaSeltzer into the bottle, it reacts with the water and creates carbon dioxide gas bubbles. Because the food coloring has already dissolved into the water, the bubbles are "colored" and float to the top! Once they 'pop', the colored bubbles sink back to the bottom of the bottle because they are heavier than the oil.

Watch Ryan make his own lava lamp here:  
<https://www.youtube.com/watch?v=r0jic2Q64So>

