

VR Science Lab

Lava lamp

You will learn how vinegar reacts with oil

Age of students: 16 - 17

Make sure you put the correct amount of all ingredients

The experiment consists of:

1. Baking soda and vinegar
2. Food coloring and oil
3. Water and a spoon
4. Jar, a small glass and a small table light

Preparation time: 10 min

Teaching time: 40 min

1. Put 2 large spoons of baking soda in the jar
2. Fill the same jar with oil to the top
3. In the small glass first put little bit vinegar and mix it with food coloring of your choice
4. Put the jar on the table light and then pour the small glass with vinegar in the jar
5. Wait for 1 minute and bubbles will start to float

Explanation: Oil and vinegar do not mix. When you drop vinegar into the bottle with the oil, the vinegar sinks to the bottom and the oil floats to the top. Oil floats on the surface because vinegar is heavier than oil. Vinegar is denser than the oil.

As the drops of vinegar fall through the oil to the bottom of the bottle, it reacts with the baking soda to make carbon dioxide gas. These bubbles attach themselves to the colored vinegar and cause them to float to the surface. When the bubbles pop, the color sinks back to the bottom of the bottle.

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SCAN ME

