

LIQUID DENSITY EXPERIMENT

**Grade 1 - Energy
and Change**



WHAT'S THE REAL PROBLEM ?

Sometimes
liquids get into
water and
makes it dirty.

WHY DOES IT MATTER?

We need
clean water
for animals
and people to
stay healthy.

WHO DOES IT HELP?

This helps
fish, ocean
animals and
people who
drink water.

QUESTION & HYPOTHESIS

Question?

How do different liquids with different densities layer when they are poured into the same container??

Hypothesis

If multiple liquids with different densities are poured into one container, then the liquids with the highest density will settle at the bottom, and the liquids with the lowest density will float on top.

BACKGROUND

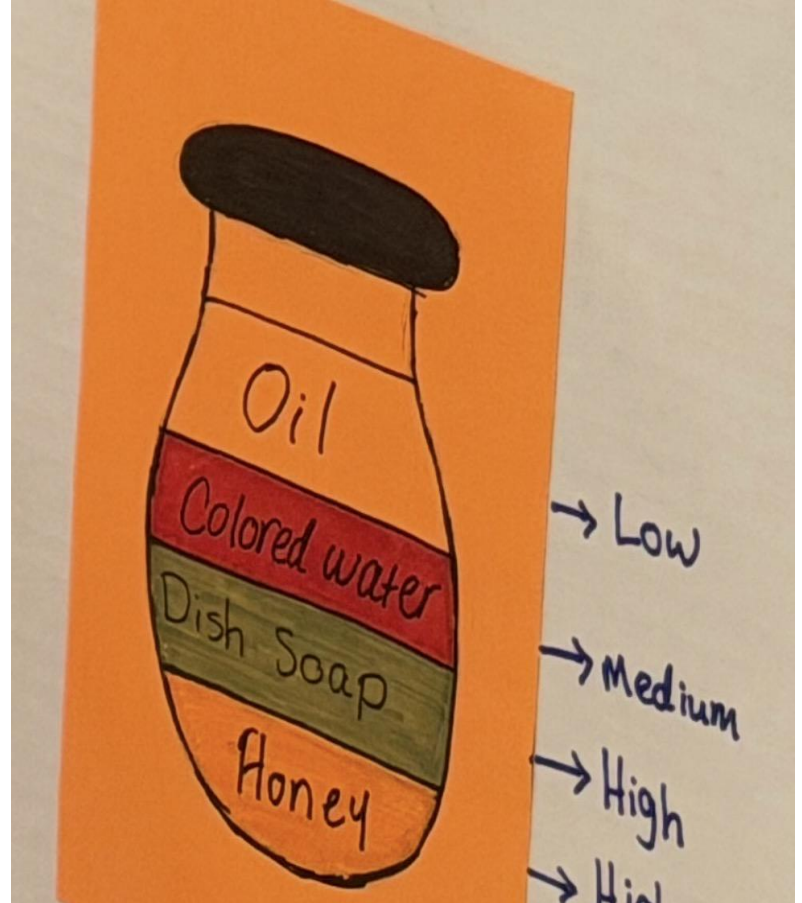
Background Information

Density is the amount of mass in a given volume. It is calculated using the formula:

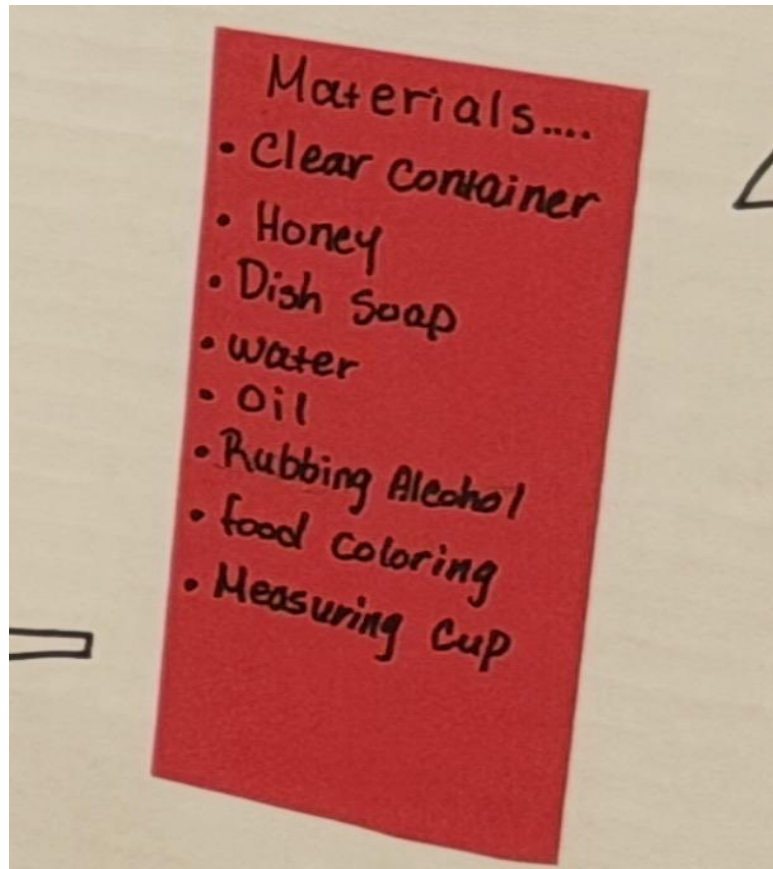
$$\text{Density} = \text{Mass} \div \text{Volume}$$

liquids with higher density sink below liquids with "lower density."

when liquids do not mix and have different



MATERIALS



HONEY



OIL



DISH SOAP

PROCEDURE

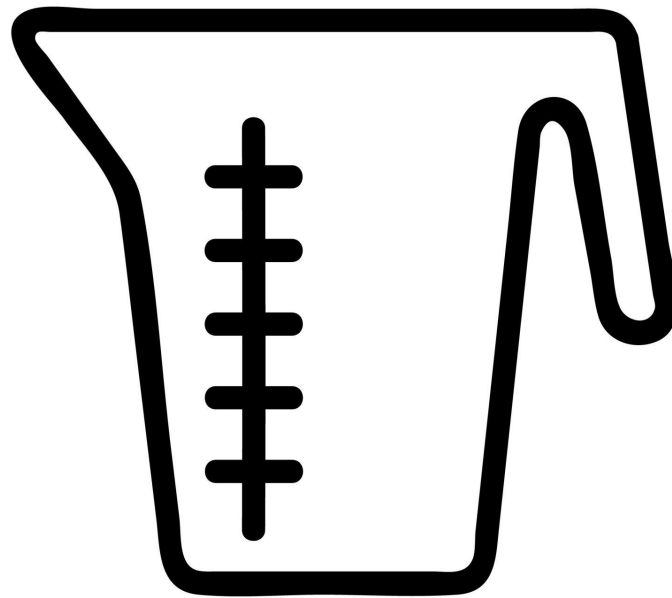
Procedure

1. pour honey into the container
2. slowly add dish Soap.
3. Add Colored water.
4. Pour the oil slowly.
5. observe how the liquids form layers.

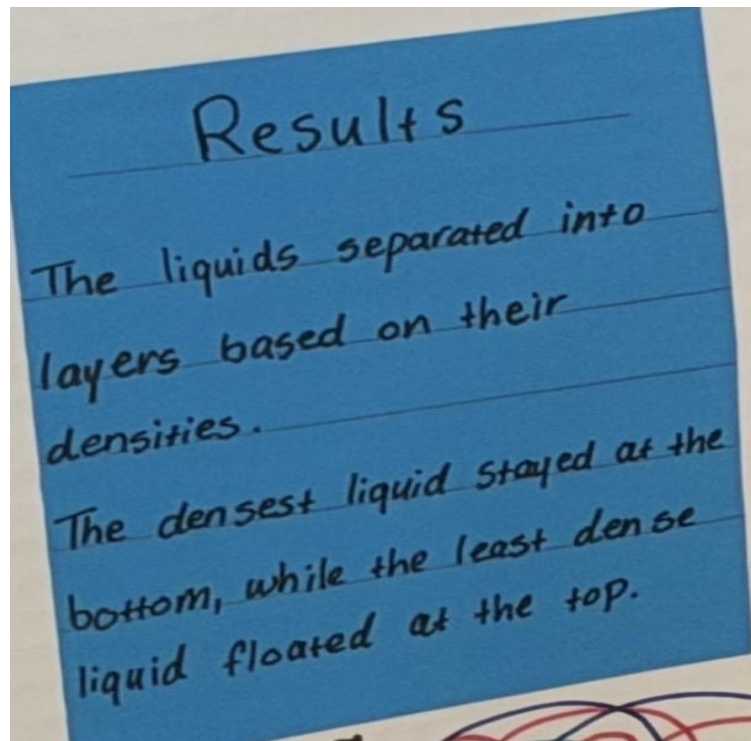


DATA

- ½ cup of honey
- ½ cup of dish soap
- ½ cup of water with food coloring
- ½ cup of oil



RESULTS



CONCLUSION

My hypothesis was supported because the densest liquids settled at the bottom and the least dense liquids rose to the top.

I learned that each liquid has a different density. That the highest density will always be on top.