



Mad science

Layered Liquids



NAME:

Layered Liquids

SOURCE:

Drew the science dude and scifun.org



QUESTION I AM TRYING TO ANSWER:

Why do the liquids stay separated when poured into a tube together?



MY HYPOTHESIS:

If I pour four different colored liquids into a container they will mix into a gross brownish color.

Materials:

- Rubbing alcohol
- Olive oil
- Maple syrup
- Dish soap
- Cylinder
- Funnel

MY PROCEDURES:

1. I poured maple syrup into the tube
2. I carefully poured olive oil into the tube.
3. I then add the blue dish soap
4. Last pour rubbing alcohol carefully in the tube
5. I observed that those liquids did not mix together but formed layers.
6. I researched to see why the liquids did not mix together but become layers.

MY RESULTS:

The **density** is what is making the liquids separate instead of mixing. For example, the syrup has the most density of all the liquids so it rests on the bottom. The particles that make up the syrup are tightly packed together. The rubbing alcohol has the least density, or more space between the particles making it less dense or lighter. This makes it rest on the top layer and not sink down.

THE END

