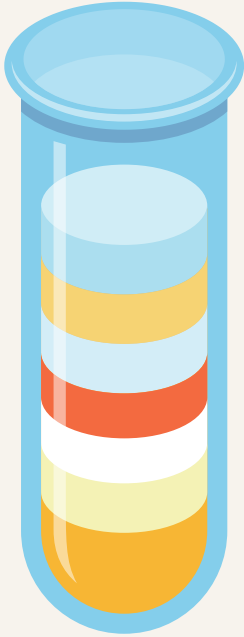


Build a Density Tower

Lab Instructions



Needed Materials:

- Tall drinking glass or graduated cylinder
- Corn syrup
- Water mixed with food coloring of any color (This will make it easier to see.)
- Vegetable oil
- Rubbing alcohol
- Penny
- Grape
- Cork
- Paper clip
- Small stone
- Other small items to add, such as a raisin, an acorn etc.

Make your **hypothesis**. Which liquid substances are the most dense? The least dense? Draw your predictions on the first glass of your worksheet.

A large, empty rectangular box with a thin brown border, intended for drawing predictions.

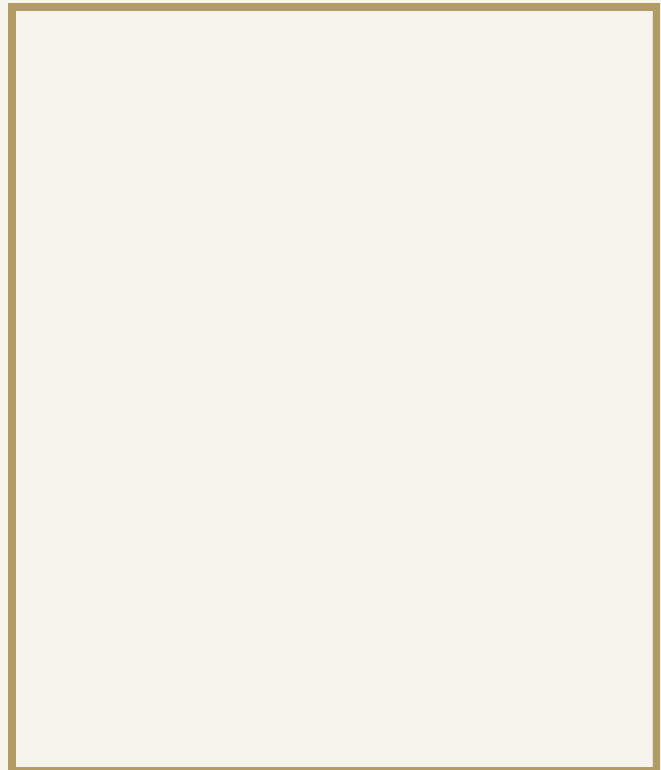
Time to Conduct the Experiment!

Experiment:

1. Begin by pouring each of your 4 liquids into the glass. It doesn't matter what order you add them, but try to use an equal amount of each (using a measuring cup helps). Pour slowly and hold your glass at an angle so that each liquid flows down the side. Set your glass upright and wait for 5 minutes. Don't shake or stir.
2. Gently add each of the small, solid items to your glass and watch carefully as they settle.
3. Leave the glass undisturbed for 5 more minutes.

Data and Analysis

Record your observations on the second glass of your worksheet.

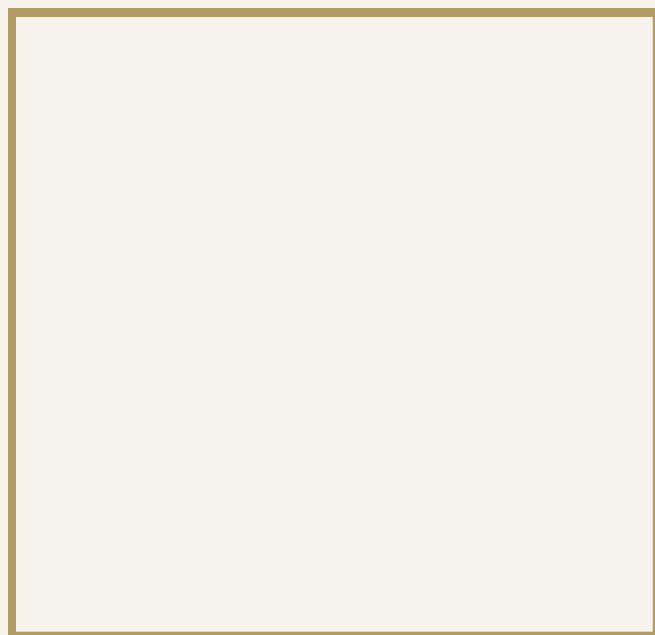


Conclusion

Was your hypothesis correct? Did anything surprise you? What does this tell you about comparing each item's density? Which items have the same density? Label your items from most dense to least.

Most Dense

Least Dense



Additional Notes
