

Experiment 9: Density Daze

People often talk about density, but few actually know what it means (and calling your friend "dense" doesn't count).

In this experiment, you'll see density in action, and by the end you'll know everything you need to.

What You'll Need

Estimated time for completion: 10-15 minutes

1. Two beakers
2. Vegetable oil
3. Discovery Kids™ DNA stain
4. Syrup
5. Graduated cylinder
6. Plastic, metal, and wood cubes

Instructions

1. Pour 60ml of the syrup into one of the beakers.
2. Pour 60ml of tap water into the other beaker.
3. Measure 2ml of the Discovery Kids™ DNA stain in the graduated cylinder, and pour this into the beaker of tap water.
4. Hold the beaker full of syrup in your hand. Tip the beaker until it is on a 45-degree angle. Slowly and carefully pour the blue-stained water into the beaker of syrup so that the water runs down the syrup. Try not to shake or mix. (Figure 31)
5. Now pour the entire contents of the vegetable oil vial into the beaker. The vegetable oil vial contains 70ml of oil.
6. Look at the beaker. You will notice that the three liquids are separated into three distinct layers: a brown layer, a blue layer, and a yellow layer.
7. Carefully take all three cubes from your lab. One by one, drop them into the beaker.
8. You'll notice that all three cubes float on a different layer in the beaker. This is because the three cubes are made to have different densities, just as all three liquids have different densities. Each cube floats in the liquid that has the most similar density.

So what is density? It is the ratio of an object's mass, to its volume. What that basically means is, how big is the object, and how tightly are the molecules packed? A brick of lead has a much greater density than a brick of Styrofoam, even though they are the same size. And syrup has a much higher density than water!

It's A Wrap

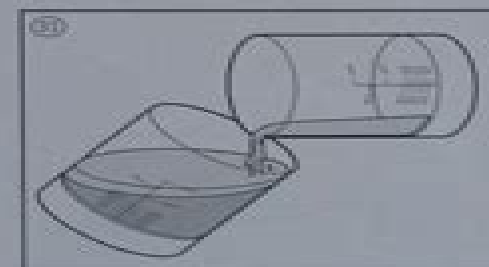
The simple definition of density is that it is the number of molecules contained in a given area (volume). The more molecules that are packed together, the denser the material.

Solids, for instance, are denser than gas. When an object is less dense, it has more buoyancy. That's why you saw that certain densities "floated" at different levels.

The same principle applies to hot air balloons. They "fly" because the gas inside the balloon is less dense than the air outside. And so the balloon rises. In fact, our atmosphere becomes less and less dense the higher you go, which is why eventually a hot air balloon stops rising – at the point when the density inside equals the density outside.

If you'd like to perform this experiment again, common household vegetable oil can be used.

Out in the universe, there are some materials so dense that a golf-ball sized piece, if you put it on earth, would weigh the same as a truck.



Discovery Dna Explorer Kit Manual

JA Banks



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