

PhET Density Simulation Lab

The density of a substance is the ratio of mass and volume. Every substance has its own specific density. We use this property to help identify the substance. Mass can be measured by using a balance. There are different methods to determine the volume of a substance. One way is to measure the length, width and height of the object. However, not every object has a perfect shape to be able to do that. So we use the displacement method to determine the volume of an odd shaped object. This is accomplished by filling a graduated cylinder with water and record the volume of the water, then place the object in the water and record the volume of the water and object. To determine the volume of the object you will use the following equation:

$$\text{Volume of water and object} - \text{Volume of water}$$

The equation for density:

$$\frac{\text{Mass (g)}}{\text{volume (mL)}}$$

For solids and liquids, the SI unit for density is g/mL or g/cm³ and gases are reported in g/L.

To complete this lab, click on following link and spend some time exploring the simulation.

[Phet density simulation](#)

Part 1

In the right hand corner, select **Same Volume Blocks**. Create a data table that answers the following questions.

- (a) What are the mass, volume, and density of the yellow block?
- (b) What are the mass, volume and density of the red block?
- (c) List the block colors in order from smallest to largest mass.
- (d) List the block colors in order from lowest to highest density.
- (e) How are mass and density related for blocks of the same volume (i.e. do the both increase/decrease-direct relationship or one increases and the other decreases-inverse relationship).

Part 2

Select **Same Custom Blocks** and then **My Block**.

Phet Density Lab Answers

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Phet Density Lab Answers:

Phet Density Lab Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Phet Density Lab Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

<https://crm.avenza.com/book/scholarship/HomePages/practice%20tests%20for%20lsw.pdf>

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