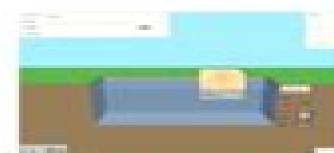


Go To: <http://phet.colorado.edu/en/simulation/density>Adapted from Chris Bier's Density [PhET Lab](#)
COMMONS - ATTRIBUTION

OPTION A: CREATIVE



Density

Introduction

You've heard that oil floats on water. You also know that ice cubes normally float in a glass of water. Why? What causes some things to float in water (corks, ice, dogs) and some to sink in water (rocks, metal spoons, mobsters)? Density is often described as the amount of mass crammed into a volume, and is illustrated by the formula shown below. The units for density are expressed g/cm³, g/mL, kg/m³, and kg/L. In this simulation, we will use kg/L. Water's density is 1.00 kg/L (the SI unit would be 10³ kg/m³).

Important Formulas:

$$\rho = m/V \quad W_{\text{fluid}} = F_{\text{buoyant}} \quad W_{\text{object}} = mg \quad a = F_{\text{net}}/m$$

Procedure: Click on the URL above and then click [Run Now!](#)

Take a few minutes and familiarize yourself with the simulation before moving on.

Free Body Diagrams for Floating Objects:

- Grab the various blocks, lift them over the water and drop into the water a few times.
- In the 3 boxes at the right, **draw free body diagrams for** 1. a free-falling block,
- 2. block under water, and 3. a floating wood block. (Use Insert>Shapes and
- arrows to draw the free body diagrams on the figures at the right)

1. In which figure(s) is the block accelerating?

Block 12. What should be the **net force** in the vertical direction when the block is **floating**?**0 N****The %-Density Ratio Trick**

Estimate the percentage of the wood, ice, and Styrofoam block that is under water while those blocks are floating. Remember: the density of water is 1.00 kg/L.

Density of Wood	Density of Ice	Density of Styrofoam
0.4 kg/L	0.92 kg/L	0.15 kg/L
% Wood under water	% Ice under water	% Styrofoam under water
40%	92%	15%

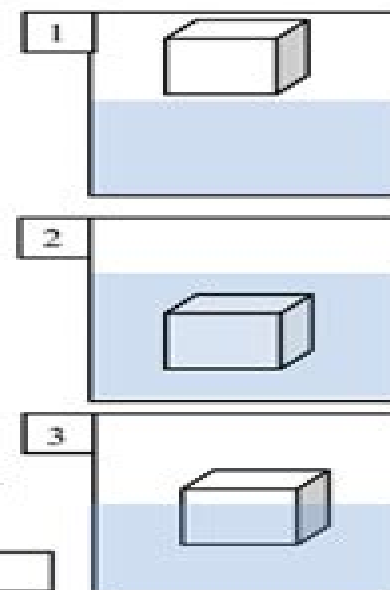
Estimations to the densities shown on the chart. Place those densities in the chart above.

- Create a formula to show how much of a floating object would be submerged in any fluid. 10 pts

% under = _____

Calculating Density

Using the simulation each scenario listed in the box at the right, complete the tables below. You should be able to estimate the % submerged to within 5%.



- Compare your

Phet Density Lab Answers

Sebastian Brünink

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.

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