

Static Pressure

Using PhET – Fluid Pressure and Flow

Before you do this lab, find the basic physics formula for pressure: $P = \text{force/area}$. The standard units are: N/m^2 or Pa .

Open the simulation. Grab the pressure gauge and see what happens to the readings as you lower it from the top of the screen down to just above the water (about 3 meters). Explain why this happens: The pressure increases as you lower the gauge because of the increasing amount of air above.

Click on the Grid box in the upper-right. Fill the tank. Now lower the pressure gauge from the top of the water to the bottom of the screen (about 3 meters). Explain why this result differs from your previous answer: Again, the pressure increases as you lower the gauge because of the increasing amount of water above. But the rate of increase is greater under the water due to water's greater density.

Leaving the pressure gauge at the bottom of the screen, discover how the pressure is related to the density (ρ):

The pressure increases as the density increases. They are directly proportional.

Leaving the pressure gauge at the bottom of the screen, discover how the pressure is related to the gravity:

The pressure increases as the gravity increases. They are directly proportional.

The formula for pressure at depth at sea level is $P = 101325\text{Pa} + \rho g d$, where d is depth. Use this formula to calculate the pressure in Pa under 3 meters of water (show your work): $P = 101325\text{Pa} + \rho g d$

$$P = 101325 + (1000\text{kg/m}^3)(9.81\text{ m/s}^2)(3\text{ m})$$

$$P = 131000\text{ Pa}$$

Now switch to the triangular tank using the 2nd window at the upper-left. Slide the pressure gauge sideways along the bottom of the tank. What happens as the gauge goes under the slants? Explain: The pressure doesn't change, regardless of the slants. Only the depth matters. The fluid flows under the slants and transmits the pressure equally, according to Pascal's principle.

Now go to the 3rd window at the upper-left. Put a pressure gauge at the bottom of each tank. What happens to the pressures as the weights are added on the left tank? What is your conclusion? The weights add to the pressures of each gauge equally. The more weight there is, the more pressure. Again, the pressure is transmitted equally at equal depths.

Phet Denisty Lab Answers

Marcel A. Müller



Phet Denisty Lab Answers:

Reviewing **Phet Denisty Lab Answers**: Unlocking the Spellbinding Force of Linguistics

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