

Pool Cubes 2: Buoyancy

Purpose

To investigate the nature of the buoyant force and to see the role it plays in determining whether or not an object floats.

Apparatus

____computer

____PhET sim, "Buoyancy" (available at <http://phet.colorado.edu>)

Discussion

When objects are immersed in a fluid, the fluid exerts a force on them. This is the buoyant force.

Procedure**INITIAL SETUP**

Turn the computer on and let it complete its startup cycle. Locate and open the PhET sim, "Buoyancy," and note that it opens in its "Intro" tab. Do not change the settings in the on-screen Blocks, Fluids, or Show Forces panels.

PART A: WOOD

Step 1: Measure (in the sim) and record the weight (W) of the 5.00-kg wood block.

Step 2: a. Place the wood block in the water and notice that it floats.

- b. When the wood block rests on the ground, the downward gravitational force is balanced by an upward normal ("contact") force. When floating, the gravitational force is still there, but the normal ("contact") force is not. The force exerted by the fluid is the buoyant force (B). When floating, which force is greater: the gravitational force or the buoyant force? Defend your answer.

- c. Record the value of the buoyant force acting on the wood block.

Step 3: a. What volume of water does the wood block displace when it floats in the water?

- b. What is the mass of that displaced water? (Note that the density of water is 1.00 kg/L.)

Pool Cubes 2 Buoyancy Answers

Craig Bohren, Bruce Albrecht

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

Pool Cubes 2 Buoyancy Answers:

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