LAB 13 - ARCHIMEDES' PRINCIPLE

PHYS 111

ISAAC WOODARD

MAY 28, 2021

EQUATION 1

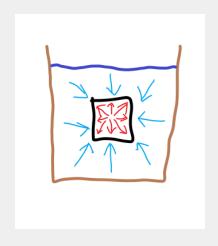
$$ho = rac{m{m}}{m{\mathsf{V}}}$$

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EQUATION 5

$$W = \rho_{o} Vg$$

BUOYANT FORCE

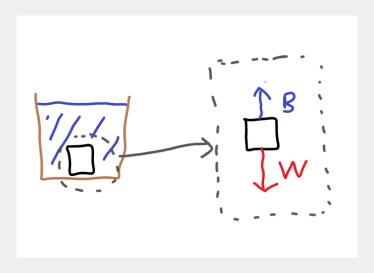


FLOATING VS. SINKING





FORCE DIAGRAM



EQUATION 10

$$W = \rho_0 V g \quad (W_a)$$
 $B = \rho_W V g \quad (W_a - W_W)$

$$\rho_{\rm O} = \frac{\rho_{\rm W}}{1 - W_{\rm W}/W_{\rm a}}$$