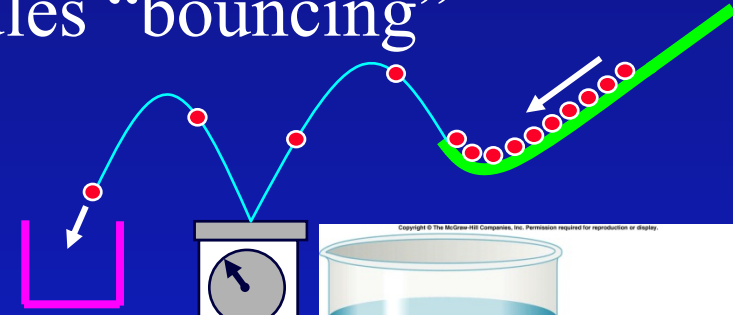# Review Static Fluids

- Pressure is force exerted by molecules "bouncing" off container $P = F/A$
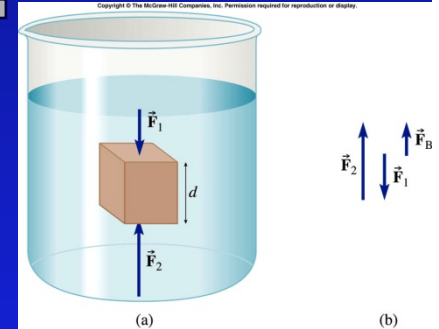
- Gravity/weight effects pressure
  - ➜ $P = P_0 + \rho g d$

- Buoyant force is "weight" of displaced fluid.
  - ➜ $F_B = \rho \, g \, V_{displaced}$

Today: *Moving fluids!*

$A_1 v_1 = A_2 \, v_2$

$P_1 + \rho g y_1 + \frac{1}{2} \rho v_1^2 = P_2 + \rho g y_2 + \frac{1}{2} \rho v_2^2$