Tuesday, April 7/15
Science 122

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1. Questions?
   Worksheet - Pressure and Depth in Static Fluid

2. Pascal's Principle

3. Worksheet – Review: Fluid Mechanics - Hydrostatics -> #1, 2, 5, 7

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4. Buoyancy and Archimedes' Principle

5. Apparent Weight

6. Worksheet: Archimedes' Principle

7. Experiment 13.1 - Archimedes' Principle

8. ICA - Hydrostatic Fluids: _____?_____

Worksheet - Pressure, Etc.

#4. $W = 16\,9\,N$.

$0.400\,m \times 0.200\,m \times 0.100\,m$

$P = 2.02 \times 10^5\,Pa$.

$P = \frac{F}{A}$

Smallest # blocks

$P = \frac{NF}{A}$

$N = \frac{PA}{F}$ ←

N ↑

$N = 24$ blocks.

#5. b) $W = Fd$ → Constant force.

Grade 11 $W = \Delta E_k$ ←

$W = \Delta E_g$ ←

$W = \Delta E_e$

$W = E_{ef} - \cancel{E_{ei}}$

$W = \frac{1}{2} k x_f^2$

$W = \frac{1}{2}(31.00)(0.055)^2$

$W = 5.4\,J$

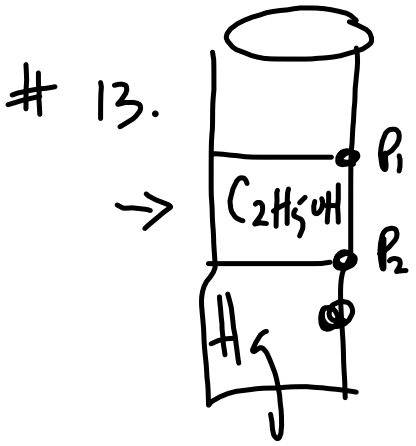
10. $P_2 = P_1 + \rho g h$ ← hydrostatic formula.

$\Delta P = P_2 - P_1 = \rho g h$

↑ gauge pressure.

$\rho g h = 2.45 \times 10^5\,Pa$

13.



$P_1 = 1 atm = 1.01 \times 10^5 Pa$

110cm = 1.10m

7.10cm = 0.0710m

$\boxed{P_2} = P_1 + \rho_e g h$

$P_y = P_2 + \rho_{Hg} g h.$

Tuesday, April 7/15
Physics 122/121

http://mvhs-sherrard.weebly.com/

1. Unit 1 Test

2. Text: Page 536, PP #1-8?
   Text: Page 549, PP #13
   Page 570, Prob. #17, 19, 20 (omit graph)

HW

3. Quiz: U2-S1 (Projectiles) - Friday, April 10/15

Tuesday, April 7/15
Science 10

1. Return: Quiz: Ionic Compounds
2. Worksheet - Counting Atoms (Front Side)
3. Types of Reactions
4. Balancing Chemical Reactions

5. Worksheet - Balancing Chemical Reactions (Front Side)
6. Formation/Synthesis Reactions
7. Decomposition Reactions