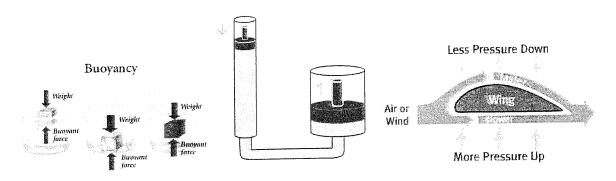


8. Know the phase change diagram! Going from a solid to a liquid or a liquid to a gas or a gas back to a liquid, etc.

9. Know your science vocabulary!!! This includes understanding Archimedes' Principle, Pascal's Principle, and Bernoulli's Principle.



10. Be able to calculate Pressure using the equation Pressure = Force + Area. What is the pressure if a P= F = 10 N/cm2 force of 50N is applied to a 5cm2 object?

11. Be able to use Pascal's Principle to calculate output force in a hydraulic system using the equation $P = F_1 = F_2$ A_1 A_2

If an input piston has a force of 25N applied to an area of 5cm² and the output piston is 30cm², what is the

output force?

 $\frac{35N}{5 \text{ cm}^2} = \frac{F_2}{30 \text{ cm}^2}$

12. Understand Charles's Law, Boyle's Law and the Temperature-Pressure Relationship. What does each law state? What does a graph of Charles's law look like? What does a graph of Boyle's law look like? What are some real world examples of each law? Look over the notes we did in class!

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TEMP. IS CONSEANT VO

13. How do airplanes take flight? Whose law describes this process and how does it work?

BERNOULLI'S PRINCIPLE > AS FLUID SPEED INCHEASES, RRESSURE

14. Why do helium balloons expand as they rise in the atmosphere? What law describes this?

THE HIENER YOU GO IN THE ATMOSPHERE, THE LESS
PRESSURE THE IS SO AS THE BAHOON RISES,
PRESSURE DEPLEASES + VOLUME INLASES. BOYLES LAW.