

Name _____

Test Part 1 - Materials (Pressure, Density, Lab Results and more)

Example Choice: Pick One from your notes, or
from the packet: **problems 1, 2, 3, or 76**

things to remember about..

pressure and density



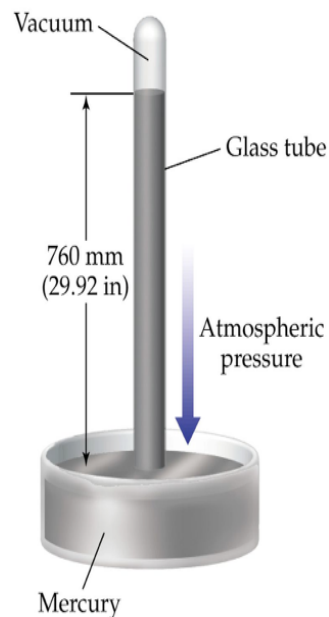
$$P = \frac{F}{A} \quad \rho = \frac{m}{V}$$

1 ATM = 14.7 PSI
101.3 kPa
760 Torr

Example Choice: Pick One from your notes, or
from the packet: **problems 82 or 83**



$$P = \rho gh$$



Name _____

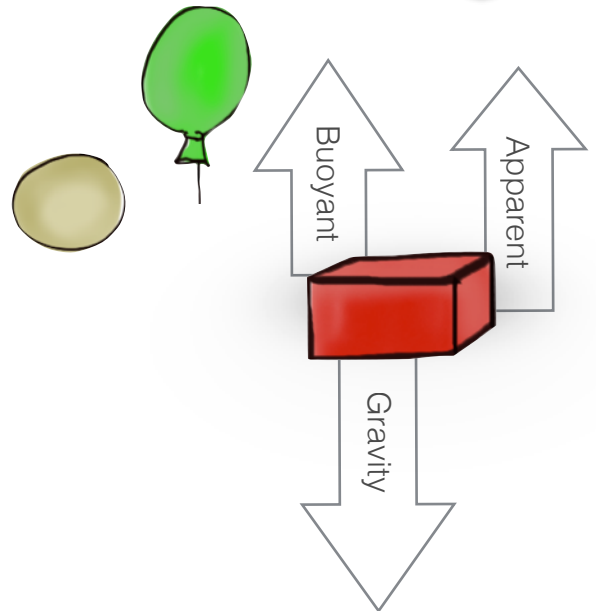
Test Part 1 - Materials (Pressure, Density, Lab Results and more)

Example Choice: Pick One from your notes, or
from the packet: **problems 27, 28, 29, 86, 87
or 88**



things to remember about..

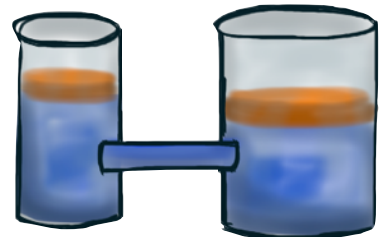
Archimedes Principle



Example Choice: Pick One from your notes, or
from the packet: **problems 23, 24, or 26**

things to remember about..

Pascals Principle



Name _____

Test Part 2 - Materials (Heat, Temperature and more)

things to remember about..

symbols and units

full name	symbol	possible units	used for
SPECIFIC HEAT OF SOLID		J/kg °C	
SPECIFIC HEAT OF LIQUID		J/kg °C	
SPECIFIC HEAT OF GAS		J/kg °C	
DENSITY		kg/m	
LATENT HEAT OF FUSION		J/kg	
LATENT HEAT OF VAPORIZATION		J/kg	
COEFFICIENT OF LINEAR EXPANSION		x 10	
COEFFICIENT OF VOLUMETRIC EXPANSION		x 10	
COEFFICIENT OF CONDUCTION		J/ m s °C	
EMISSIVITY			
COEFFICIENT OF CONVECTION		J/ s m	
BOILING POINT / MELTING POINT		°C	
$\sigma = 5.67 \times 10$			



F° to C°

*subtract 32
divide by 9/5 or 1.8*

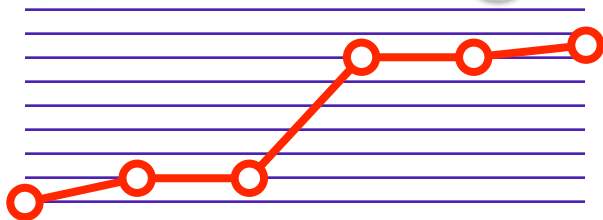
things to remember about..

temperature scales

Example Choice: Pick One from your notes, or
page 1&2 from the packet (labeled 10A)

Test Part 2 - Materials (Heat, Temperature and more)

things to remember about..

*changing temperature
or phase*

Example Choice: Pick One from your notes, or
**page 3&4 from the packet: practice problems
13-15 or problems 19 or 21**

$$Q = mc\Delta T$$

$$Q = mL$$

things to remember about..

finding equilibrium

Example Choice: Pick One from your notes, or
**page 3&4 from the packet: practice
problems 9-11 or problems 9 10 or 11**

Example Choice: Pick One from your notes, or
**page 3&4 from the packet: practice problems
5 & 6 or problems 22 & 23**

Test Part 2 - Materials (Heat, Temperature and more)

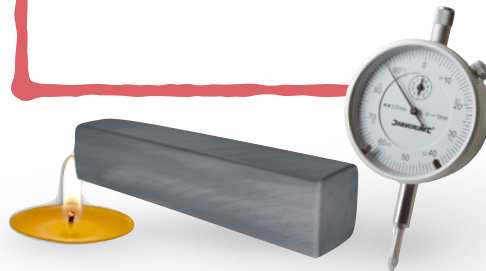
things to remember about..

thermal expansion

$$\Delta L = L_o \alpha \Delta T$$

$$\Delta V = V_o \beta \Delta T$$

Example Choice: Pick One from your notes, or
lab demonstrations and calculations



things to remember about..

heat transfer

$$H = \frac{kA\Delta T}{l}$$

$$H = hA\Delta T$$

$$R = e\sigma T^4$$

$$R = H/A$$

Example Choice: Pick One from your notes, or
lab demonstrations and calculations

