

1 January 20, 2015

**Warm-Ups: Week 1** Page # \_\_\_\_\_

Monday - 1/19 **MLK Day!**

Tuesday - 1/20

Wednesday - 1/21

Thursday - 1/22

Friday - 1/23

Set-Up your warm-up page for the week!

2 January 20, 2015

**Warm-Up!**

Today you will need your notebook and pencil

- Review: What is the formula for density?

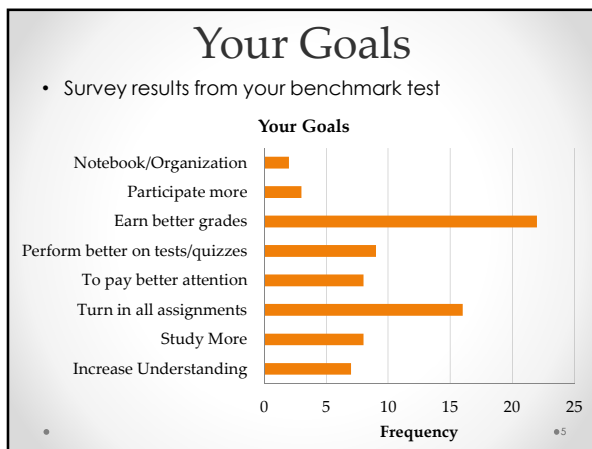
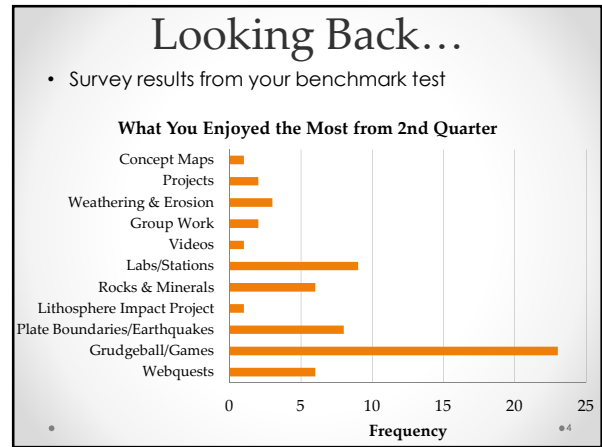
$$\text{Density} = \frac{?}{?}$$

3 January 20, 2015

**Warm-Up!**

Today you will need your notebook and pencil

- Review: What is the formula for density?

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$


- ### How To Reach Your Goals
- Assignments:**
    - ONE weekly homework assignment
    - Given to you on Monday due on Friday
    - Throughout the week answers to most of the homework will come up during class.
    - You can complete your homework a little bit each day or all in one day, your preference to fit your busy schedule with your other classes.
    - Answer key for homework will be posted Friday night
    - Points will be deducted for late homework assignments
  - Earn Better Grades & Increase Understanding:**
    - Complete and turn-in your assignments to get practice and feedback
    - Participate in class
    - Keep handouts in your notebook/folder to reference
    - Use your study guides to help prepare for quizzes and tests

# Hydrosphere & Density

...  
January 20, 2015


## Hydrosphere

**Whiteboards!**

What are some examples of what is included in Earth's hydrosphere?


**Hint:**  
"Hydro" is the root word for water

Fire Hydrant



## Hydrosphere

- Hydrosphere:** All the water in Earth's oceans, lakes, seas, rivers, and glaciers plus all the water in the atmosphere

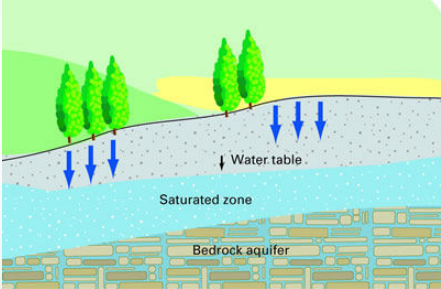


## Earth's Water

- Only 3% of Earth's water is freshwater
- Found both on Earth's:
  - Surface:** Icecaps, Glaciers, Lakes, Rivers, Swamps
  - Underground:** beneath the water table


## Water Table?

- Simplified, it is the "surface" of ground water.




## Density Defined

- Density is mass divided by volume



## Density Demonstration!

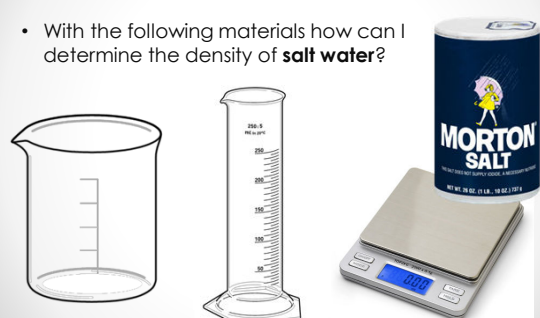
- With the following materials how can I determine the density of **water**?



13

## Density Demonstration!

- With the following materials how can I determine the density of **salt water**?



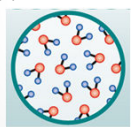
14

## Think About it...

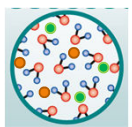
**Whiteboards!**

Why do you think the salt water was more dense?

There is the same amount of water in both tests. However, because there is more matter (salt) in salt water, the density is greater.



Plain Warm Water



Salt Water

15