

# Density & Buoyancy Exam FRIDAY!

What do you think is going to be on the test?

What is density - How compact the matter is in an object.

Equation for Density -

$$\rho = \frac{m}{V} = \text{Density}$$

Buoyancy - How well an object floats.

ex) density =  $.65 \text{ g/cm}^3$   
this object is 65% submerged.

Ballast -

ADDITIONAL MASS used to stabilize a vessel.

Density Units -

$$\frac{\text{g}}{\text{mL}}$$

$$\frac{\text{g}}{\text{cm}^3}$$

# Mission 1

## Review Archimedes Principles

SINK - Volume of OBJ  
IS EQUAL to the  
Volume of the displaced  
H<sub>2</sub>O.

FLOATS - The obj mass is  
EQUAL to the  
mass of the displaced  
H<sub>2</sub>O.

