## Unit 8: Fluid Mechanics

## LAB: Buoyancy

Objectives:

- Accurately determine the mass of an object that is floating in water. ${ }^{1}$

Hypothesis: State your hypothesis.

Background: On what principles did you base your hypothesis and your procedure?

## Equipment:

- Archimedes balance apparatus, water, triple beam balance

[^0]
## Procedure:

Data and Calculations: (Include below an error analysis that will help you conclude about your hypothesis.)

Conclusion:

- What can you conclude? Justify your conclusion(s) with evidence.
- Were there errors? If so, account for them.


[^0]:    ${ }^{1}$ Helpful information: 1 mL of water is $1 \mathrm{~cm}^{3}$ (1 cubic centimeter), and the density of water is $1000 \mathrm{~kg} / \mathrm{m}^{3}$.

