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

Unit 8: Fluid Mechanics

LAB: Buoyancy

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

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.