

Name _____

Date _____

Commack High School
Regents Physics
Lab # ____ - The Measurement Lab

Lab Partners _____

Strategy – The purpose of this lab is to calculate the density of several objects in order to

- gain experience making simple measurements
- become familiar with the basic fundamental units of length and mass.
- become familiar with derived units
- gain experience with significant figures (sig figs) and calculations

Requirements – You must take all data necessary to best determine the density of aluminum solids such as an aluminum block and aluminum foil. Organize your data in a neat data table(s) being careful to include units. Below each data entry in the data table indicate, in parentheses, the number of significant figures in the data. Clearly show your calculations of the density of the objects to the appropriate level of precision keeping significant digits in mind. How did you determine the number of digits to leave in each of these density calculations? (Be specific) Compare the accuracies of the determination of the Al block density and the Al foil density.

Suggested Equipment – blocks, measuring equipment (ruler and micrometer)

DO NOT GATHER ANY EQUIPMENT UNTIL:

_____ I have approved your procedure

_____ I have approved your data tables