

## Measurements

### Hints for answering some of the lab manual's questions

- Q1: Water is available at the sinks between the lab stations.
- Q5-B: Do not actually measure. Use your textbook as a reference.
- Q6-A: Recall that 12 inches = 1 foot.
- Q6-B: Recall that 100 cm = 1.0 meters.
- Q9: Keep in mind possible timing errors, especially human reaction errors.
- Q10: Do the calculations for each of the balls used.
- Q11: Do the calculations for each of the balls used.
- Q12: If your density calculations do not match up with those listed, re-measure and recalculate. Always keep in mind minor measuring errors which may creep into your data collection.
- Q13: Write out the new equation.
- Q15: If you know how to do this theoretically, explain how you would do it. If you have the time in class, experimentally try this.

### Remember

- each station has enough equipment for at least 2 groups to work at the same time.
- there is a handout in the front of class with all data tables needed for this lab on it. Feel free to use this if you forgot your lab manual.
- to keep in mind errors which may have crept into your data collection when analyzing your data tables.
- to include units on your data tables in header sections.
- to have me sign your data table before you leave class, otherwise you will receive a 0 out of 10 points for your lab write-up.
- to answer the questions on a clean sheet of notebook paper.
- to use full and complete sentences when answering the lab's questions.
- next lab is "The Inclined Plane."

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