

## PHY152H1S – Practicals Day 1: Introduction

Welcome to the PHY152 Practicals! You have each been assigned a pod. Take a look around. Get to know your pod-mates. What famous physicist was your pod named after? Say “Hi!” to the pods that are near you. We have 3 hours together today. Here is the agenda:

- **Hour 1:** Name Game, Practice Problem Set 1, Student Presentations – not for marks
- **Hours 2 and 3:** Electricity and Magnetism Module 1 Activities 1, 2 and 4 (Activity 7 if you have time)

The Marking rubric for the Hour 2 and 3 activities is linked at the top of the Practicals schedule on the web-site. You will receive a mark out of 8 for this work, which will be entered on the portal between now and next week. In addition, materials from these Practicals, including the Uncertainty Modules and Python Modules, will appear on the test and final exam in this course.

### Hour 1: Practice Problem Set

The Practice Problem Set 1 has been posted in PDF format on the Practicals web page. On loose paper or the white-board, write out solutions to the following problems as a team. You can use your own scratch paper, paper provided, or the white-board, whichever you prefer. You may each want to take a photograph of the solution when you are done for future study. Your pod may be assigned to do a particular problem on your whiteboard. This session should take no longer than 50 minutes. At the end of the week, solutions to these problems will be posted.

### Hours 2 & 3: Marked Practicals Activities

In the TERM booklet which each pod will turn in at the end, please complete all of the questions for this week posted on the Practicals web-site. For this you must work in your teams of 3 or 4 students, and you will share a mark out of 6 points. In addition to the 6 shared points per team, there is an individual participation mark out of 2, for a total of 8 points per week.

### **Practices in keeping a good TERM booklet :**

Everything you do in the lab should be recorded in your booklet while you are doing the practicals activities. There is no point in copying information that is already in this guide sheet. Nor is there any point in writing a detailed essay on your procedure; note form is quite sufficient, as long as it is complete and comprehensible to your Practicals Instructor.

- Write your **Pod Number** clearly on the front of the booklet, and fill in “1” for the *book no.* – If you require more than one booklet during today’s practical, ask your TA and fill out the book number and *total number of books used* on each booklet.
- List the **Names** of all participants on the cover of the booklet. You do not need to write your student numbers. Note if any participants arrived late or left early.
- Fill in the **Date** on the front page of the booklet.
- It is good practice to number the pages in your booklet as you use them, in case you need to refer back to previous work.
- **DO NOT** use loose paper for data taking or calculations. All your work should be entered and appear in your booklet(s).

- Use “diary format”. Diary format means that the record is written in the order in which a procedure, calculation or inspiration actually occurred. You should NOT leave blank pages to be filled in later.
- All relevant computer codes, program output, graphs, etc, should be printed out and stapled into the booklet neatly beside the description of your work. There is a printer in the Practicals room. Be careful to label your work with your pod number so it doesn't get mixed up at the printer!
- You should also NOT spend much time "tidying up" your booklet, or "rewriting history". Treat the booklet as a log of what actually occurred.
- Do not use liquid paper, or big blotchy marks, or torn-out pages to obscure parts of your work. If you have written down something that you later realize is wrong, simply put a line through it and label it as “wrong”. Many times you might figure out later that what you thought was wrong was not wrong and you'll be glad you didn't blotch it out!

Note that every week we will assign an “If You Have Time” activity. In general, students should NOT do these! It is better that you use extra time to go over the required activities again and make sure you have done your best work. However, if you do attempt it, up to 0.5 'bonus points' will be awarded if the team completed and did well on the IYHT activity. A pod should have the permission of a TA before attempting an IYHT activity.

*It is my sincere hope that you have fun in Practicals this semester, learn a lot, and that the Practicals help you succeed on the midterm and final exam. Please let me know if there is any way I can improve the Practicals experience for you,*

..Jason Harlow..

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MP121-B, office hours Wednesdays 2-3pm or by appointment