

Sonometer Lab - Instructions for Online Students

The point of the lab is to demonstrate how the normal mode frequency of a string depends on length, tension, and mass density. Read through the manual. You'll see there are four experiments in this lab:

1. Mode frequency versus n
2. First mode frequency versus length L
3. First mode frequency versus tension T
4. Mode frequencies and mass density μ

The experiments have been done for you by a member of the physics faculty. Your task is to write a lab report based on their data, which we've provided for you in the data folder. I've also posted an interactive version of the data on *Airtable*, which you may find is easier to work with—follow the link:

<https://airtable.com/shrhqwPjVGr3WzBp7>

If you're stuck on how to write the report, read over the report writing guidelines I've posted. It's not a rulebook, but it outlines some of the basic components your report should probably have.

Report 1 is due on Thursday February 25th (not the 18th as stated earlier). If you have questions please let me know.