Activities Introduction

For this unit and future units, there will be a sequence of activities instead of the lecture/notes format we have been following. I noticed the following problems/issues from last semester:

- It is hard to keep everyone together.
- It is hard to keep everyone engaged.
- It is hard to help people as they need it.
- Everyone needs to improve their writing.
- Everyone needs to work on either their analog skills (pencil and paper), digital skills (computer), or both.
- Reading, english, and math need to be more incorporated into Science. Science should demonstrate reading, english, and maths immediate application to everyday life.

With all of that in mind, the layout for each activity will be:

- Introduction paragraph
- Notes to be copied into your lab notebook
- Activity that helps you internalize the concepts we are covering.
- Questions to copy into your lab notebook.
- Daily Log (on Schoology) that will connect what you are doing to something outside of class.
- Lab Report (on Schoology) that will have you create connections between the different parts of the activity using complete sentences.

Below is the reasoning I had for structuring the class this way:

- Activities allow for you to work at your own pace in smaller groups, increasing your engagement and allowing you to have some control over the pace you work.
- Gives me time to go around and check in with groups and help them.
- Minimize the quantity of notes you have to take because the deeper learning is happening during the activity.
- Using the lab notebook provides opportunities for analog work.
- Daily logs and lab reports online provides opportunities for writing and digital work.

Notes

Everything in the box below should be copied into your notebook word for word. There will sometimes be parts of the notes that will need to be filled out by you after you do some calculations. When you have to fill out your notes further, I'll include an 'Instructions for Notes' section after the notes. It is up to you how much of 'Instructions for Notes' section that you copy into your lab notebook, but you should finish filling out the portions left empty.

The notes here are what you should do when you first setup a notebook.

Table of Contents

Instructions for Notes

Whenever you setup a notebook you should always leave the first couple of pages for the 'Table of Contents'.

If you are right handed I recommend you only number the top right corner of every right page, and not number the left pages at all. This is so as you flip through the notebook you can see all the page numbers in the same corner.

Additionally either below or around the page number, you should always have the date and a 1 word description of the contents of that page.

Lastly, don't put more than one type of content or multiple days on the same page. Paper is very cheap and relatively environmentally friendly (compared to most every other thing) so you should use as much as needed to keep yourself organized.

Activity

This section will describe the goal of the activity.

Setup - Procedure

- This section will describe what you need to do to setup and preform the activity.

Question for Labbook

- This section will have questions for you to answer about the activity in your lab book.

Cleanup

- This section will explain what you need to do before moving onto the next activity.