LAB 1 REPORT

Purpose: The purpose of this Lab was to introduce tools/ instruments that we may completely see in the physiology lab setting. As well as to get the most accurate measurements for physiology.

Procedures:

Experiment 1A:

- Observed how the black box worked
- Recognizing what is happen to the black box
- Gain understanding of the use of the black box when being applied to the experiment as well as the measurements of human physiological event occurring

Experiment 1B:

- Become comfortable with metric units of measure.
- Learn the unit of each measurement.
- Know what each prefix of the units mean

Results:

Linear Measurements

- 1. Length of lecture text: 270mm converted to 27cm
- 2. Width of lecture text: 220mm converted to 22cm
- 3. Depth of lecture text: 10mm converted to 1cm

Volume Measurements

- 1. Volume of water in the beaker: 98mL converted to .098 liters(I)
- 2. Volume of water that was poured into the graduated cylinder: 93 mL converted to .093 liters.

Mass Measurements

- 1. Mass of the iphone: 0.24933mg converted to 249.33g
- 2. Mass of the water poured into the beaker: 0.08011mg converted to 80.11g

Ph Measurements

- 1. Ph of liquid in container A: 5ph
- 2. Ph of liquid in container B: 7ph
- 3. Ph of liquid in container C: 9ph

Time Measurements

1. My pulse rate after 15 seconds: 1 beat/second 60 beat/minute

2. My pulse rate after 60 seconds: 60 beat/minute 1 beat/second

0.001 beats/millisecond

Discussion: I appreciated learning the fundamental aspects of materials and tools that we may be seeing in further labs to come, in order to engage in more difficult parts of a lab. It established a foundation for further experiments to come.

Conclusion: In conclusion, after completing this lab I've come to understand the basic units used in the metric system. Algo with that I learned how to convert the units found in the metric system. In regards to experiment 1b I learned to determine the acidity and alkalinity of a solution through the use of the solutions pH. Lastly, I discovered the function of the "black box", which were the indicators, input transducer, electrodes, amplifiers, and output transducers.