# Lab Report : Physiological Instruments

Purpose: To learn how to convert measurements, and collect data

Procedure:  Water

1. Measured water with a beaker then converted ml into liters (l) to find volume
2. Poured the same water into a graduated cylinder and did the same conversion.
3. Weight the cylinder to get the mass of the glass
4. Convert weight of cylinder from g to mg
5. add the water back into the cylinder
6. Subtract weight of cylinder from the weight of cylinder and water combined
7. Convert your answer from g to mg

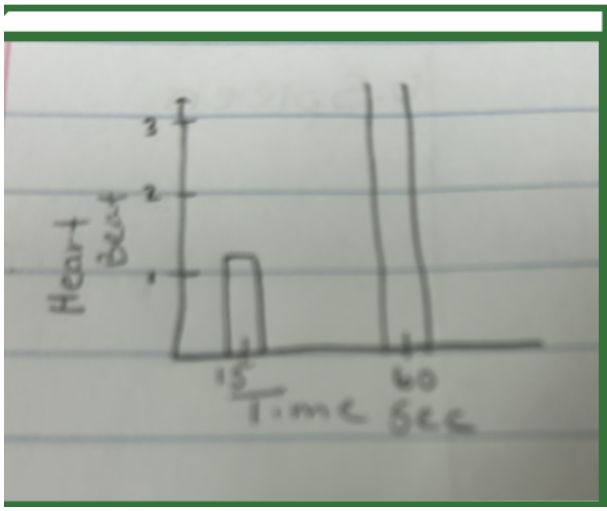
pH Measurements

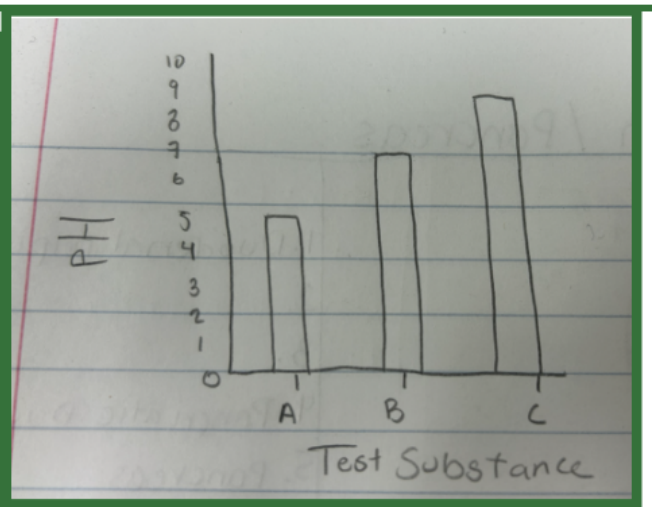
1. Get three pH testing strips
2. use liquid A on a clean pH testing strip
3. Use chart to see what balance it will be
4. Do the same step for liquid B an C

Time Measurements

1. Find your pulse
2. Count every heart beat for 15 seconds
3. Then convert what you got to beats per second
4. Then convert what you got to beats per minute using what you got per second
5. Then convert what you got to beats per millisecond

Results:



Discussion: It was very easy to convert weight once you got the hang of it. While taking my pulseI noticed there're multiple factors that can cause your pulse to be different, anxiety, being calm and age. The results would be different for everyone. For the pH i noticed we should all have the same unless we had different substances.

Conclusion: In the experiment, water volume was measured in a beaker and a graduated cylinder, with conversions from ml to l. Cylinder weight was measured, converted from g to mg. Water was returned, and its mass calculated by subtracting the cylinder's weight. Results were converted from g to mg. For pH, three strips were used with liquids A, B, and C. Colors were matched to a chart for pH values. Regarding time, pulse was found, and heartbeats counted for 15s. Converted to bps, then bpm using this value. Further conversion to beats per millisecond was done.