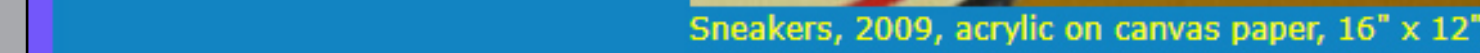




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Achievements

Connected Learning
 ▶ **Classes and Projects**
 Campus and Community
 Internship Site
 Research

Achievements



Competency	Evidence
Critical Literacy (written communication, critical thinking, and critical reading)	<u>How Has the Fast Food Industry Adapted to Consumer's Diet Demand?</u>
Quantitative Reasoning	<u>Density, Accuracy, Precision and Graphing</u>
Oral Communication	<u>Diminishing Health Benefit Research Group Powerpoint Presentation</u>
Research and Information Literacy	<u>Neighborhood Research</u>
Technological Literacy	<u>How Has the Fast Food Industry Adapted to Consumer's Diet Demand? Powerpoint Presentation</u>

LaGuardia Community College

SCC201 Fundamentals of Chemistry I

Experiment # 1

Density, Accuracy, Precision and Graphing

ditor: Solaine Coquillon-Master
hong Heng Chen
ong Wang

Instructor: Dr. D. Miller

ABSTRACT

In the "Density, Accuracy, Precision and Graphing" experiment, the purpose was to determine the density of water and the concentration of a saline solution as well as to compare the accuracy and precision of a graduated cylinder and a graduated pipet. Based on the instructions of the lab manual, *Fundamentals of Chemistry*, the experiment was performed in three parts. Part A: Density of Water. The density of water was calculated by measuring the mass of three different volumes of water: 30mL and 10mL. Part B: Accuracy and Precision of the volumetric glassware. A 100mL beaker, 10mL graduated pipet and deionized water. The experiment was performed three times; each time, 10mL of water was added to the beaker and recalculated. Part C: Density of Sodium Chloride (NaCl) Solution, a sample of NaCl was obtained and measured using a 100mL beaker and a 10mL pipet to determine the concentration of the solution. In order to obtain the appropriate result, a calibration graph and density measurement was used to determine the concentration of the solution. The density of the solution was determined at a temperature of 21.8 °C in Part A at a graduated cylinder experiment obtained, it was determined that the average density was 0.973g/mL with a percentage error of 2.5%. When graphed the measurement was equal to $y = 0.988x$. Part B: The graduated pipet's average density at 22.3 °C was determined to be 0.9785g/mL with a percentage error of 1.89% shows the graduated pipet to be more accurate and precise. Part C: Density of an unknown NaCl solution was measured and a calibration curve was used to determine the concentration of NaCl by mass in solution. $y = 0.007x + 0.998$ which concluded that the concentration of the sodium chloride solution was 3.14%.

INTRODUCTION

Anything that you can see, touch, taste or smell, occupies space and has mass, it is called matter. Matter can be a gas, a liquid, or a solid. But density of the mass is an intensive property that defined as the amount of mass in a unit volume of the substance.

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

Density, in term of chemistry, is used to measure the compactness of an object at different temperature. When substances are heated or cooled, they will change volume, and therefore, the density will change also depending on the temperature. In this experiment, determine the density of water as it increases in volume at different temperature is to identify the relationship between density, mass and volume. Also

ANTHONY LIMONGI
EPORTFOLIO

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Course Work

Classes and Projects

Mass Media & Their Evolution

Video Production Workshop

Art of Film

Writing for TV

Digital Copyright

Business Law

HUC 240: Video Production Workshop

Description:

This course introduces the student to the theory, vocabulary and production techniques of the video medium. Students, functioning as a production team, create and produce short video projects during the quarter which culminate in a final production created, organized and produced by the class. Students are assigned, on a rotating basis, specific production roles such as director, switcher, camera operator, floor manager, audio technician, production assistant or VCR operator.

Reflection:

This is one of my favorite classes I've taken at LaGuardia. It was very hands on and practical, and not to mention, fun! Professor Hume's knowledge and grasp on film production made this class worthwhile!

