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### Lab Report – Soda Bottle Experiment

#### Hypothesis:

Given that a soda bottle roughly resembles a cylinder, we expect a linear relationship between the height of the water and the amount of water filled in.

#### Method:

We measure the height of the water after filling in equal amounts of water. To test for the linear relationship, we will make a best line fit in a V-h diagram.

#### Raw Data:

Volume filled in (mL)	Height of Water Level (cm)
0	0
250	4.0
500	6.6
750	9.1
1000	11.7
1250	14.2
1500	16.8
1750	19.2
2000	22.0
2250	26.5

#### Uncertainty & Error:

##### Uncertainty:

We were able to measure the volume with a precision of  $\pm 25$  mL and the water level with a precision of  $\pm 0.5$  cm.

##### Major Sources of Error:

##### Systematic:

- In particular at the lower and upper end of the bottle we have indentions that make the shape of the bottle deviate from a cylindrical shape. This should overall shift the curve upwards. (Can be avoided by only measuring the height gain for the middle part of the bottle.)
- Ruler held at an angle. This will result in an over-estimate of h. (Can be avoided by holding ruler perpendicular.)
- Residual water in the bottle. This will again shift the entire curve upwards. (Can be avoided by having the bottle carefully dried.)

# Chemistry

## Modern Analytical Chemistry

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DePauw University



Boston Burr Ridge, IL Dubuque, IA Madison, WI New York San Francisco St. Louis  
 Bangkok Bogotá Caracas Lisbon London Madrid  
 Mexico City Milan New Delhi Seoul Singapore Sydney Taipei Toronto

**Physics**  
**The Wadness Formal Lab Report Format and Policies**  
*Adapted from John Kuduky-Greenfield High School*

All formal lab reports should be typed, except for carefully drawn and labeled diagrams, tables, graphs, and calculations.

The basic premise of a lab report is to describe:

1. What question you were investigating
2. What you expected to occur and **WHY**
3. What occurred
4. Your interpretation of what occurred, how it relates to the original question, and the original expectation of what would occur
5. Summary of the investigation and its applications
6. Errors and limitations of the investigation

**Points and Penalties**

First Draft: Worth two homework assignments. Definition of a first draft is NOT a rough draft, but a draft that *could* be turned in as a final draft and receive at least a passing grade.

Final Draft: 100 points. As stated, in the course policies, lab reports are due in class on the date assigned regardless of your attendance. Due dates are announced several days in advance. Therefore they are due on that day. Labs will be accepted one day late with a 10-point penalty. After one day, lab reports will NOT be accepted and you will receive a zero on the assignment.

If you are unable to attend school on the due date, and do not want the lab to be late, you may email the lab report as an attachment to [mwadness@medford.k12.ma.us](mailto:mwadness@medford.k12.ma.us). To not be considered late, labs must be emailed by 10:00 AM.

**Detailed Breakdown of a Lab Report**

The report should have the following components in the order given.

**Title Page with Abstract (15 Points)**

Title, your first and last name, your partners' first and last name-5 points  
Abstract-10 points. The abstract is a paragraph briefly summarizing the objective, the procedures, and your results. An abstract is usually considered a brief overview of the entire investigation.

**Objective (5 Points)**

The objective is the beginning of the second page. The objective is a statement, which describes the question you are investigating. There may be multiple objectives. Please state them all.

**Hypothesis (5 Points)**

The hypothesis is a statement of what you expect for results. Obviously this should be done before the lab is performed. It is of little consequence whether your hypothesis is supported as a result of the investigation. It is not about, "guessing right." However, the importance of the hypothesis is to make you think ahead and make an educated prediction based on previous

\_\_\_\_\_ Department \_\_\_\_\_ High School

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# LAB REPORT

## Introduction

\_\_\_\_\_  
\_\_\_\_\_

## Hypothesis you are trying to test

\_\_\_\_\_  
\_\_\_\_\_

## Materials

- ◆ \_\_\_\_\_
- ◆ \_\_\_\_\_
- ◆ \_\_\_\_\_
- ◆ \_\_\_\_\_
- ◆ \_\_\_\_\_

## Procedure

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
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5. \_\_\_\_\_  
\_\_\_\_\_

Quest Diagnostics has almost 2,300 locations in the United States. You may also have to avoid certain foods or habits (such as smoking), as well as certain medications or supplements that may affect your results. \* Adapted from the Labwrite program of NC State University, © 2004 NC State University Physics is commonly identified as "the study of matter, energy and interaction between them". It deals with measurements, mathematical analysis and experiments to discover the quantitative physical laws that are related to each event on this planet. Describe the possible sources of error (do not say a human error). Therefore, when explaining the physical discussions, it must clarify things. Make sure you have answered all analysis questions, and you have responded to your research problem as it arises in the introduction. And your doctor can also help you understand the results and make a plan for any treatment you may need. The laboratories will be described using the attached rationation. However, discussing a complex theme could be very disconcerting for some. Discussion / Open Analysis with a declaration of key findings and clearly reference the findings with laboratory data. This should include a list of all the materials used, a diagram of the laboratory configuration if appropriate, and the steps taken to achieve the laboratory (preferred, but organized, organized, the ordered instruction lists are acceptable with the Elements of the list in full sentences). A. List of materials All materials used. Your doctor can request a laboratory test for you through Quest, or you can buy a test through a service called QuestDirect. In addition, it can also be a physical conscience ship, and you can do so by using understandable reports. Prepare for your appointment at Quest Diagnostics Once you receive your set of appointments, you can also receive instructions from how to search how to prepare for your appointment. Then, today, we are exploring what diagnoses of search test and search services search And how can you book and prepare for an appointment. According to the company, approximately one in three Americans use their services each year. Write a paragraph that explains each table and graph, including your key result and other outstanding details. If you are curious for how to make such processes, read this sample and have an idea about how to present your own report.11. Read this sample to learn how you can discuss complex topics. 3. Physics Education Research Lab ReportJournals.aps.org/detailsfile FormatSize: 654 KBDownLoada Great report of physics is accompanied by an adequate amount of details and fully explains each part clearly and briefly. For example, you may need to fast: that means you can not eat or drink anything more than water during some time before the test. Type in the third person: Avoid the references of 1nd and second person as I, we, you, and you (understood). Therefore, when preparing complicated subjects, physical laboratory reports should be simplified and understandable. This includes evidence related to everything, from chronic diseases and allergies to influenza and Covid-19. There are two simple ways to be tested through search diagnostics. An evident example of this are the concepts of machining manufacturing. This shows talks about an application of Newton's law, which is the Hooke law. MyQuest also allows you to access your family's health records through a characteristic called my circle. See and know how to do the same. Physician can be difficult, but it should not be hated. Before your test, you can always confirm with Quest or your doctor exactly how it should be prepared. Thermodynamics Physics Lab ReportwritingAlab.ReportDetailSfeFormatSize: 145 KbdwnloadTesshis Thermodynamic Sample Tackles: A Branch of Physics Studying About Relationship The heat and temperature of temperature, work, radiation and property properties. B. Laboratory configuration diagram shows an experimental configuration scheme when necessary. From Format to the graphics that clearly illustrate your data, let this sample guide it. It is likely that you will be asked to bring your identification with photo and insurance test. In addition, this discipline is highly beneficial in general. Then, select a day and time available for your appointment and provide your contact and safe information. To help manage your appointment (and schedule others in the future), Quest Diagnostics has a line tool called MyQuest. If the credibility of its report on physical laboratory experiments is still in doubt, see this sample and its guide to be assisted accordingly.10. Use a clear source with a maximum point size of 12. This option allows you to overlook the visit and trials of the medical request on your own. But it is always a good idea to talk to your doctor before ordering the tests. Perhaps, a comprehensible physical laboratory report could help you. Examples and templates of physical laboratory reports for some, understanding physical concepts and terminology are like killing a dragon. B. The graphics correctly label all axes, provide appropriate title. IV And it is likely that you have had one of these laboratory appointments through search diagnoses. With 50 million tests carried out every year, Quest Diagnostics is a Laboratory Testing Labor Provider in the United States and other countries. Join the different chemulias of the two laws of science, calculation applies. C.â, explanations The key relationship of each table or graph is described in a separate paragraph with

appropriate support details. You may also need blood analysis, such as an allergy or vitamin deficiency. In addition, the standards and ratings are evaluated respectively. Physics Lab School ReportLarsenml.people.cofc.edudetailsfile FormatSize: 194 School is home for adolescent memories and the scenario that presents more advanced issues such as Algebra, chemistry and physics. Physical Other appropriate findings of interest. To equip it for the next presentation, here are the samples and templates chosen for the first time that they could definitely make a significant difference. EDITABLE PHYSICS LAB REPORTDETAILSFILECOGOGO DOCSMSMS WORDAPPLE PAGESIZE: A4 & USA UU Letter from the letter SiteDowngraster performing an experiment, you may want to share your findings and conclusions to others. Therefore, each introductory report, especially in advanced disciplines, must become more simple and understandable. Even if your doctor ordered your tests, you may still have a copayment. According to the evidence you are receiving, you may need to take measures to prepare. To help you organize your thoughts and clearly explain your point, you may consider making a physical laboratory report. If you are going to present a lot of fresh information to your colleagues, cite this sample to get ideas on how simply submit your report.7. Mechanical physical laboratory reportsqanitaaa.files. The organization also works with other laboratories, hospitals and clinics around the world to provide evidence. You can easily find a location close to you using the search option for the location of the company on your website. In addition to the complexity of the subject, this could potentially cause the writing process more confusing. If the creation of one is upset, then take this school report for physics LabA e as a guide for you to build your own and prepare well for that presentation.3. Formal Fabric Laboratory ReportacSchools.orgDetailSefeFormatSize: 482 Kbdownloadhaving Doroverso to make your report from the recent physical laboratory activity? Based on the laboratory listing. This sample report, in the The hand, simplifies this discouraging topic and clearly elaborates its parts. VII Conclusions summarizes what he learned in the laboratory, with specific references to the scientific concept under study that detailed in the introduction. C. The steps taken provide enough information that another student could easily replicate the work of it. Most of us tend to find this discipline complex somewhat. Whether as a student or a professional, the physical could be a challenge to illustrate and explain. If you are writing a formal report for a physical laboratory experiment is your goal, this will provide you with a written guide. With the help of physical exams, scientists and engineers can build gadgets with a precise response to the user's wishes. To start composing your own, you can consider seeing this Sample Laboratory Report of Fabric Education Investigation.9. Physics Lab Experiments Reportmalonophysics.comDetailsFile Formatsize: 352 Kbdownloadetis is a student or a professional scientist, held an experiment to examine and study a specific issue with his own observations. V.â, results / data put your data into tables and graphics that are tagged properly and explained. II Introduction describe what concept explores the laboratory, and presents the objectives and proposition of the laboratory. Men / Procedure Document your experimental procedure in sufficient detail that another person could repeat the work of it. Let this sample give you a coherent general vision of how it is supposed to be built. Simply select the type of test and then enter your postal code to find the most close to you location. The tool also tracks its different test results over time. Quest offers thousands of testing and detection options for If there are different health conditions. Write the laboratory sections in this order, then reorganize the sections in a cohesive report and print before moving on to your instructor: procedure, results, results, Discussion, conclusion and title page. Important notes: Reports must be written of type. Assuming that you are extremely wanting to visit more, visit our website could help you awesomely. In addition, this template is fully editable, so it could codify all the necessary details.2. Physics Lab Reportbaylor.EdudeTaRSfefeFormatsize: 307 KbdownloadSuming that will have a report on the recent experiment he has done in the laboratory at school, and this really plays a huge part in his general qualification, he needs to crush that presentation with that presentation with a report Awesome. I. Photo courtesy: Hinterhaus Productions / Getty Images Many of us receive routine laboratory work once a year as part of our annual physician. Did you give something more from the laboratory, such as the use of laboratory equipment, procedures, methods of analysis, etc.? Saw. In addition, this defines each of its parts briefly and comprehensibly to allow you to fully understand the entire concept. Physics Lab Multi-Pt Physics ReportLibrary.vcc.CadetailsFile FormatSize: 22 KbDownloadin Some cases, a PHYSICS LAB report consists of several parts. Create the laboratory and describe opportunities for additional / future work. It also establishes the problem of research and the reason why this problem is being investigated. Although it sounds very intimidating, this sample was briefly exposed on these issues. The diagrams and graphics can be carefully written by hand and stuck in place (leave blank space in the report). This chronologic format for the Vancouver Community College Multipart Laboratory Activities Report will surely eliminate things for you.6. Introductory Physics Lab ReportFys.ku.dkdetailsfile FormatSize: 154 KBDOWNLOADIN Each report, the unique Be probably more difficult than the introduction of a difficult theme, it is understood. This annotated formal laboratory report, both for physics and chemistry, is criticized since it would allow it to learn the level of how each of the parties is written. Parts The data should be organized and clearly shown to visibly understand how it ended with such a conclusion. How to find a location and reserve an appointment whether you receive a laboratory work request from the search for your doctor or buy one through QuestDirect, you will have to book an appointment in one of the compaé's locations ± ia. You must also have a ready payment form. A. e Data tables organized and tagged with units. In particular, if you are working on an in-depth research report that corresponds to your physical laboratory activity, you can find this hard work. Title page Lab name, student name, period, date, instructor. Instead, embrace it with comprehension and nutrition. 537+ PDF Report Templates | Word | Excel | PSD | Google Docs | Apple pages | Google Sheets | Apple numbers | Editor | Illustrator: Start downloading anyway, let's admit it. More than Sintomfind.com students are strongly recommended that they write their reports on the detailed order in the previous diagram. Provide logical explanations for all affirmations. That way, you can avoid paying the tests you may really need. Once you create your account, you can access the information about your online laboratory appointment and see your results when you are ready. Organize the results section in an organized manner. Check your tables and graphics to determine the key findings of the laboratory exercise. exercise.

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