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# Examples of formal lab reports for chemistry

## Chemistry Lab Report Format

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_  
Title \_\_\_\_\_

**Partners**  
List the name(s) of your lab partner(s)

**Purpose**  
This section contains a brief statement that tells what you hope to learn by performing the experiment.

**Experimental Design**  
In this section you give a general overview of what needs to be determined or measured to achieve the purpose of the lab. You will also describe how the measurements were carried out and what major equipment and/or techniques were used during the experiment. This should be an EXPLANATION of how the lab techniques you performed gave you the data necessary to answer the purpose. It should NOT be a step-by-step procedure. You can only use **passive voice** in this section. For example, instead of "we measured the mass of the copper wire using an electrical balance," you should write "the mass of the copper wire was measured by using an electrical balance."

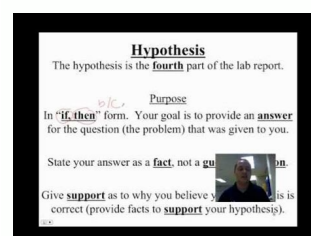
**Observations**  
These are the facts you collect when you perform the lab. Observations should be listed as key words rather than full sentences. Observations usually include those recorded before, during and after the change.

**Data and Evaluation**  
List all RAW DATA (from direct measurements) in a table format first before any calculations. Numbers should be labeled with units. The evaluation section includes any manipulations of data (calculations, graphs, and diagrams) required to reach a conclusion. All the math goes in this section. Show the LABELED set-up of any calculation required in processing the data. This section should be **handwritten**. For example:

Raw Data:  
Mass beaker + AgNO<sub>3</sub> 104.72 g  
Mass beaker 103.38 g

Evaluation:  
Mass AgNO<sub>3</sub> 104.72 g - 103.38 g = 1.34 g

mole of AgNO<sub>3</sub>:  $1.34 \text{ g} \times \frac{1 \text{ mol}}{169.9 \text{ g}} = 0.0202 \text{ mol}$



### Lab Report Guidelines

Refer to these guidelines when writing your lab reports. These guidelines should assist you as you do your experiment and record your data and observations. The parts must be in this order. (This is the order that they are done in the experiment.)

#### Data of Lab report:

**Question:** What is this experiment about? What are you trying to discover? The question you write in this section must be specific, focusing on an exact idea. This part of the report is often called the *Purpose*.

**Hypothesis:** This is where you make a statement saying what you think will be the result of your experiment. This is an educated guess based on what you already know. This also needs to be specific and exact. Your experiment will test the hypothesis to see if it is true (proven) or not. Your hypothesis must be testable.

**Materials:** List the items you use for the experiment, including the product names. Be specific in the amount needed and used, as this may affect the outcome of the experiment. This is like the list of ingredients for a recipe. Put this in list form.

**Procedure:** This is like the directions of a recipe. It is a step by step of how to do the experiment. Someone completely unfamiliar with the subject should be able to read the procedure and be able to repeat the experiment. Everything should be kept the same each time the experiment is done. This is called "controlling the variable."

**Results - Observations and Data:** You need to record all observations that you make during the experiment. This should be detailed descriptions of what you see happening during the experiment. You do not tell why you think something happened, just what you observed. Changes and patterns should also be recorded. Data is the numerical result of your experiment. This is often shown in a graph or chart to make the information clearer.

**Conclusion:** What did you discover? This is the answer to the original question. This is where you tell if your hypothesis was correct or not and WHY you have come to that conclusion. Your answer must be based on the results of the experiment, not on your opinion or what you may have wanted or expected to happen. You cannot just repeat your results, but you use them to explain what happened and what you have discovered. Tell about something that you learned by doing the lab. Talk about any possible mistakes that could have been made. Does this experiment lead you to any other questions?

Luke Wang  
October 27, 2009  
Mr. Ferguson  
Biology 9 3B

### Diffusion Lab Report

#### Question

How will the temperature of the water affect the rate of diffusion?

#### Hypothesis

If the water temperature is higher, then the rate of diffusion will increase, and vice versa.

#### Variables

Independent Variable

Water Temperature

Dependent Variable

Rate of Diffusion

Controlled Variables

Amount of water  
The variation of the amount of water put in to the petri dish can also affect the rate of diffusion, so it must stay the same for all tests.

Amount of Potassium Permanganate  
Adding different amount of potassium permanganate to the water can affect the rate of diffusion, so same amount of potassium permanganate should be added to the water every time.

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Chemistry formal report example.

3) Except indication otherwise, assume that the reader of his laboratory report is his peer, the physical student of chemistry, not the professor of chemistry. G., what was or was done). Legend example Figure 1. Hexane recrystallization gave 2.08 g of the product (23% yield). C. (link not yet active) 2. The results section also reports comparative literature values à € à €

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