

LAB REPORT WRITING

Lab Report Contents:	Marks
<i>Title Page</i>	0.3
<i>Aim</i>	0.3
<i>Materials and equipments</i>	0.6
<i>Procedure</i>	1.8
<i>Results and calculations</i>	2
<i>Discussion</i>	4
Overall presentation of the report	1
Total	10

Title Page

The title page should include:

- **The title of the experiment.**
- **Name of the Subject**
- **Names of Group and Subgroup**
- **Names of lab partners**
- **Lab date and Submission date**

Aim (“*purpose*” or “*objective*” can be used as well)

- In one sentence, state the purpose of the experiment, or why you did it.

Materials and equipments

- List all the materials (e.g. chemicals, solutions, water...) and equipments (glassware, instruments, software...) that you **ACTUALLY** needed to complete your experiment. Write them in bullets or list format.

Procedure

- Describe the **actual** steps (not as they were supposed to happen) that you did during your experiment **in details** (mention the exact amounts, time, temperature and other specific details in your experiment).

Results and calculations

- Record the **exact** data and observation obtained from the experiment
- Mention **only the facts** on this section and do not explain or interpret the results here. Interpretation of results is discussed in the “**Discussion**” section
- Include one example for each calculation you made based on your results data.
- Use Tables and figures in describing your results when possible.
 - Label the tables and figures (e.g. Figure 1: Effect of tween 80 concentration on the solubility of salicylic acid in water). Figure Label is written below the figure, while table label is written above the table.
 - Make sure to refer to figures and graphs in the text of your report in a sentence or two (e.g. the effect of increasing tween 80 concentration on salicylic acid water solubility is shown in figure 1)
- In addition to writing your data and calculations, you still need to describe your results verbally, for example:

Using the chemical factor, the weight of salicylic acid was calculated:
Wt. of salicylic acid = $0.0069 * 5 = 0.0345$ g)
- Results should be written in past tense.

Discussion

- The most important and challenging part of the report because it shows the student understanding for the lab and requires his critical thinking to find reasons for the experiment data.
- Interpret and explain the data and results. Try to find scientific meaning and justification for the results regardless whether they are expected or not.
- Discuss any mistakes you might have made while conducting the experiment and describe ways to improve the experiment results.

Notes:

Lab Report Submission

- Lab report must be submitted in the beginning of the next lab.
 - Late submission after the lab. in the same day will decrease the mark by 2.
 - Late submission after one day from the lab. will decrease the mark by 4.
 - Late submission after two days from the lab. will NOT be accepted.
- The lab. paper MUST be submitted with the lab report. Lab reports submitted without lab. papers will lose 2 marks.
- Students who did not attend the Lab. cannot write or submit a lab. report and will get ZERO mark for the report of that lab.