

# Lab Reports

## The purpose of a lab report is to:

- focus on a hypothesis
- provide a record of the experiment
- detail the method and equipment used
- present results
- analyse and interpret the data
- draw conclusions



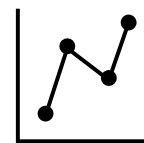
## Structure of a Lab Report

### Title Page

- title of the experiment
- student name and ID
- name of school, Eastern Institute of Technology
- course name and code
- tutor's name
- date the report due

### Abstract

- A brief summary (100–200 words) of the entire report that includes:
  - purpose of the experiment
  - methods
  - findings
  - discussion
  - conclusion



### Introduction

- background: scientific context and relevance of the experiment
- objective: what the experiment aims to investigate
- hypotheses: expected outcomes, justified with theory and/or previously published results

### Materials and Methods

- detailed list of equipment and materials used
- step-by-step description of procedures
- written clearly enough to enable replication by someone else

## Results

- presentation of data, e.g., statistical analysis
- use of tables, graphs, and figures—use [APA 7th style](#)
- observations made during the experiment

## Discussion

- interpretation of results
- comparison with expected outcomes or hypotheses with explanation for similarity or differences
- scientific reasoning and analysis
- reference to relevant literature where applicable

## Conclusion

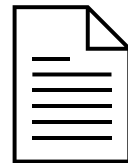
- summary of findings
- statement regarding whether the hypotheses or the null hypotheses were supported
- implications of the results
- suggestions for future experiments

## References

- list of all sources cited—use [APA 7th style](#)

## Appendices

- supplementary material such as
  - raw data
  - calculations
  - lab notes



## Characteristics of a Good Lab Report

- scientific tone and language:
  - formal, objective, clear, and precise language
  - technical terminology used appropriately
  - accurate spelling and grammar
- accurate, detailed, and replicable method
- objective presentation of results
- thoughtful analysis and discussion
- logical and evidence-based conclusions
- APA referencing and style

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