

مركز بحوث

الدراسات العلمية و الطبية

RESEARCH CENTER

FOR FEMALE SCIENTIFIC AND MEDICAL COLLEGES

عمادة البحث العلمي

جامعة الملك سعود

سورة الاحقاف

# (SCIENTIFIC REPORT)

<b>The Scientific Method</b>
<b>Observation / Question</b> Topic for research and experimentation or question that needs to be answered
<b>Research</b> Find out about the topic.
<b>Hypothesis</b> Predict the outcome to the problem.
<b>Experiment</b> Develop a procedure to test the hypothesis.
<b>Collect Data</b> Record the results of the experiment.
<b>Analysis</b> Examine the data.
<b>Conclusion</b> Compare the hypothesis to the experiments results.



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# TYPES OF REPORT

- Progress Report**
- Recommendation Report**
- Case Study**
- Scientific Report**



# SCIENTIFIC REPORT

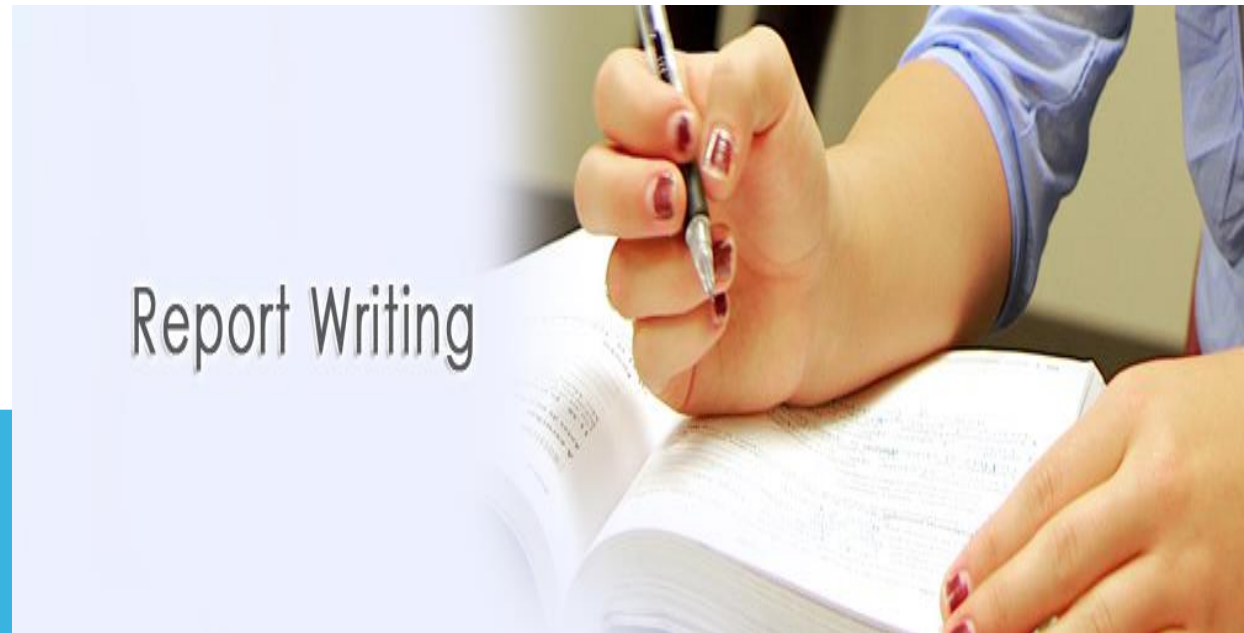
Document that describe

- Process
- Progress
- Results of technical or scientific research



# PURPOSE OF SCIENTIFIC REPORT WRITING

- ❑ Sharing **information with other scientists**
- ❑ **Review the research** by other scientists
- ❑ To show what **progress** has been made



Sample method academic  
purpose development opinion  
preferences quality question  
**Survey**  
research examine concern supervise influence  
questionnaires population potential  
collecting data statistics  
methodology studies reported decision  
formation collection politics  
theory



# FORMAT OF GENERAL REPORT WRITING

## Short report

### Title

- Introduction
- Discussion
- Recommendations
- References





# FORMAT OF GENERAL REPORT WRITING

## Science report

- Title page
- Introduction
- Method & materials
- Results
- Discussion
- Conclusion
- References



# THE REPORT ELEMENTS

## Title Section

- Title page
- Research title



# ABSTRACT


- Main objectives**
- Briefly describe methods**
- Summarize the results**
- Significance of report**



# ABSTRACT

- limited to one page.
- Highlight the purpose and importance of the proposed project.
- Brief description of the method.
- The method includes subjects, procedures and methods for data analysis.
- Duration of the study
- Conclusion

# INTRODUCTION

- Problem identifications**
  - Importance**
  - Solution proposed**
  - Clear links between problem to solution**
  - Deductive reasoning**
- 

# The Introduction

- Gives a **quick idea** of the topic of the literature review, such as the central theme or organizational pattern.

# METHODOLOGY

## Method

- Research design
- Sample
- Sampling strategy
- Assessment measures
- Procedure

## Style and structure

- past passive voice
- written in chronological order i.e. time order



# METHODOLOGY

❑ This section of your proposal has multiple parts

- Instrumentation and infrastructure
- Study groups and ethics
- Access to samples
- Data analysis

❑ Justify your method choice

Show you understand the principles

Prove feasibility of your study





# Materials and Methods

**Provide full details** so that the experiments are reproducible

Describe the **experimental design in detail.**

**Must identify accurately experimental animals, plants, and microorganisms used by genus, species and strain.**

The source of subjects studied, number of individuals in each group used, their sex, age, and weight must be clearly stated.

Methods used for statistical analyses must be mentioned

**Do not mix some of the results in this section**

**Write in the past tense**

# RESULTS

## What you found

- Key results
- Charts
- Graphs
- Figures
- Style and structure
- active voice (past tense).
- descriptive titles of figures and tables
- Figures and tables should be self-explanatory
- No interpretation of the data or conclusions about what the Data might mean are given in this section



# DISCUSSION

## Major findings

- Interpret results
- Relate to literature
- Final comment

## Conclusion

- Recommendations
- Glossary
- References



**Discussion  
Questions**

# CONCLUSION

- ❑ A conclusion is not merely a summary of your
- ❑ points or a restatement of your research problem
- ❑ Importance of good conclusion
- ❑ presenting the **major issue** you raised in report
- ❑ Demonstrating the importance of your ideas
- ❑ Introducing **possible new** or expanded ways of thinking.



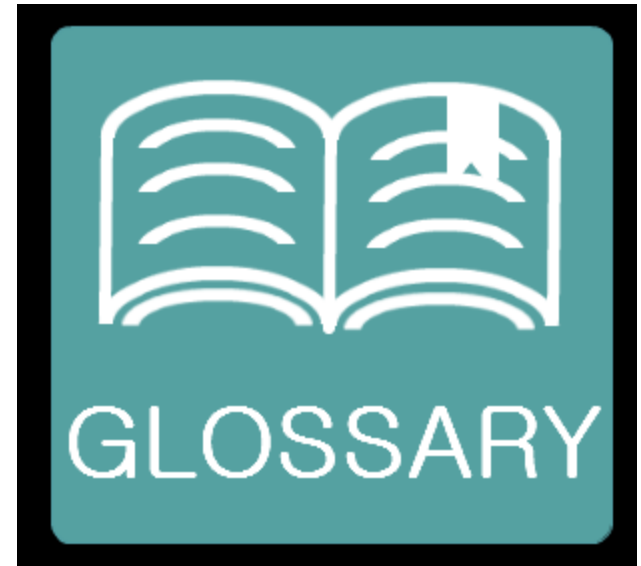
# RECOMMENDATIONS

Action to be taken based on the conclusion of the report



# GLOSSARY

Alphabetical listing of key terms in the report



# REFERENCES

- Use of recommend style

**REFERENCES**

**YES**

**NO**





**Thank  
You!!!**