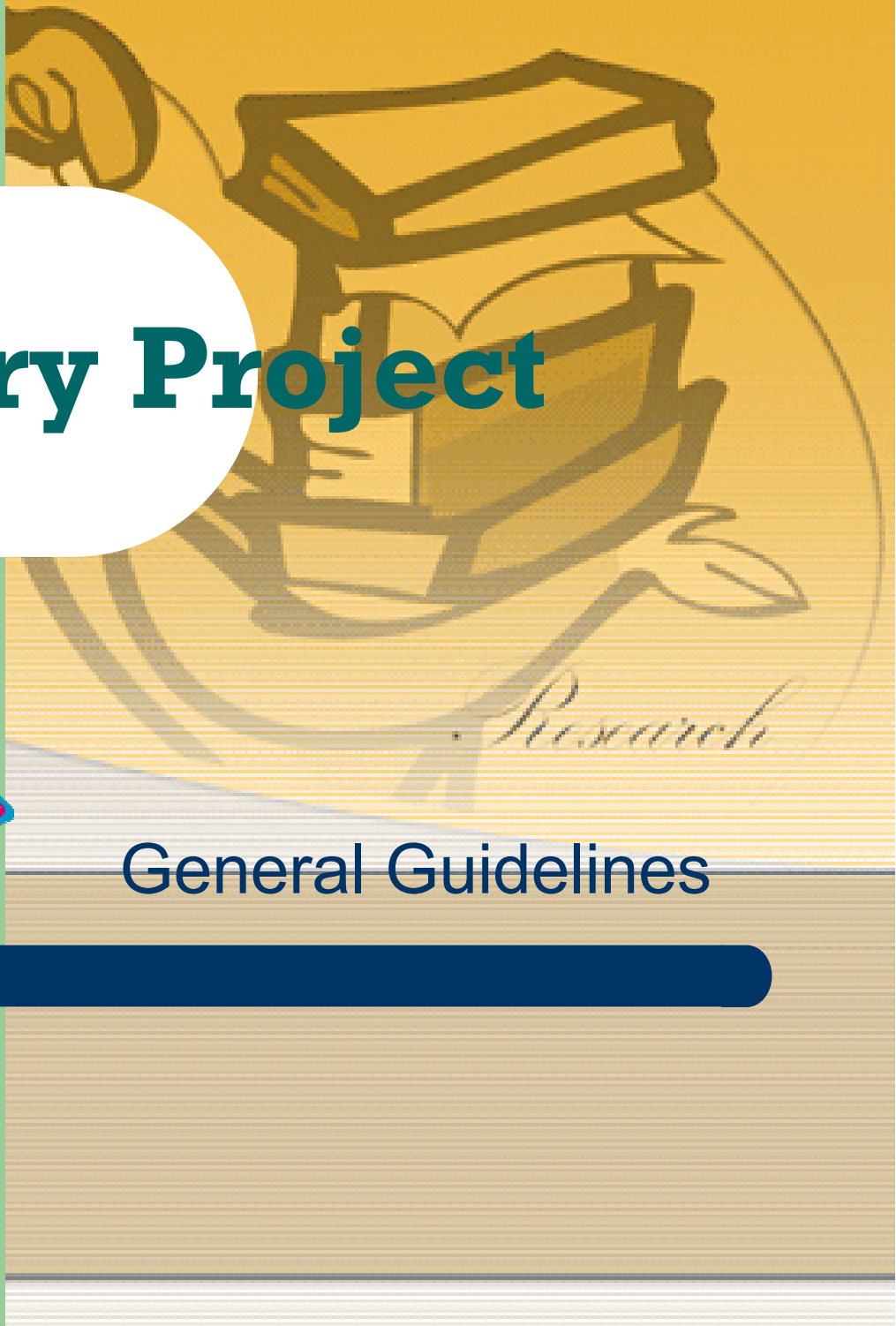


# Investigatory Project



General Guidelines



# Rubric: IP Draft

## I. Content 40 points

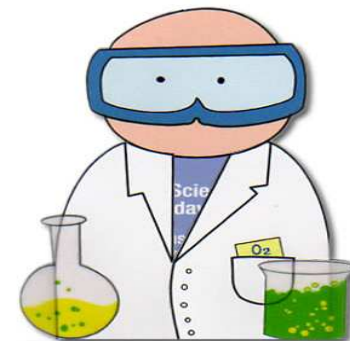
- make sure you at least have 5 references used and cited in the IP

## II. Format 20 points

- cite the references, TNR, Font 12, double spaced, justified with title page

## III. Group Participation 20 points

# Objectives



- To provide students with the opportunity to apply chemistry– related concepts.
- To develop an interest among students to engage in any scientific work as manifested in their active participation and involvement in the project.
- To provide students with educational opportunities and experiences through direct participation in scientific research
- To recognize the students efforts in completing the project by displaying their work



# Mechanics

- All groups from a particular class must submit a draft that is subject for critiquing and approval of the science teacher.
- All groups must submit a written report prior to the classroom presentation.
- All groups will defend their IP through oral presentation.
- Elimination and Final Rounds



# Mechanics

- Two (2) representatives from each finalists will present the project together with the display board during the science exhibit to a panel of judges.
- The presentation (brief but thorough) and interview will last only for 10 minutes per group.

# Format: Project Write - Up



- The project write – up must be typewritten or computerized, **double spaced in short bond paper, TNR 12 and follows the following format: short folder.**
  1. **Title Page** – should briefly and accurately describe the contents of the write – up.
  2. **Abstract** – should consist of short and concise description of the problem and its solutions. It includes:
    - a. Purpose
    - b. Procedure
    - c. Results
    - d. Conclusions

# Format: Project Write - Up



3. **Acknowledgment** – contains the names of people and agencies that helped in the conduct of the work described.
4. **Table of Contents** – lists the different parts of the whole report with corresponding page number of each part
5. **Introduction** – informs the reader of the problem under study
  - a. **Background of the Study** – states rationale of the study.
  - b. **Statement of the Problem / Objectives**– states the nature and scope of the problem with clarity. Two kinds of objectives are given here:
    - **General Objective** – this is related to the problem as given in the early part of the section.
    - **Specific Objective** – this states the purpose of each experiment conducted.

# Format: Project Write - Up



- c. **Significance of the Study** - the importance of the study is explained in this part, relevance to society
- d. **Scope and Limitations** – states the coverage and extent of the study; budget, time allotment
- e. **Review of Related Literature** – sufficient background information should be presented to the readers to understand and evaluate the results of the present study, **references must be cited.**

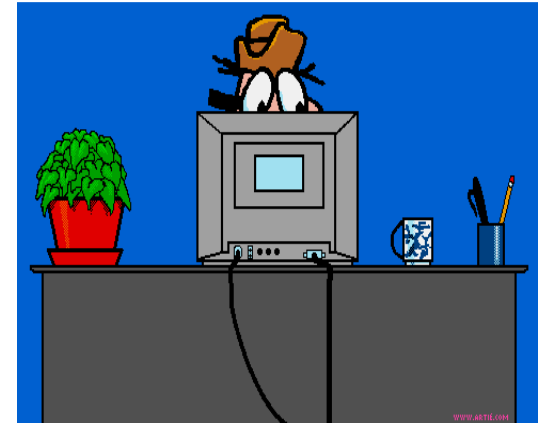


# Format: Project Write - Up



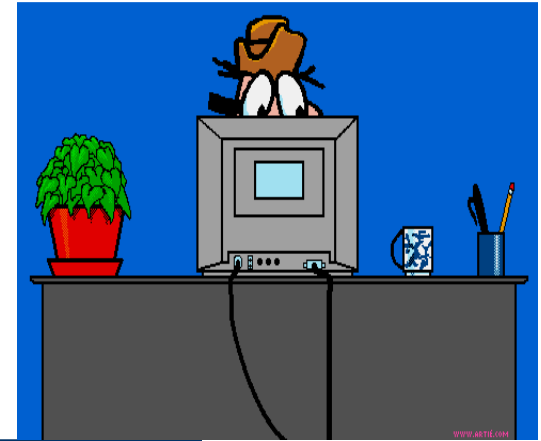
6. **Methodology** – provides enough details so that a competent individual can repeat the experiment.
  - a. **Materials/Equipment** – exact quantities of materials to be used
  - b. **Treatment/General Procedure** –  
**Avoid using the “recipe style” when stating the step-by-step procedure. Use the narrative form in the past tense.**

## Format: Project Write - Up



7. **Results and Discussion** - this maybe divided into sub-sections describing each set of experiment or observations.
  - a. **Findings** – the data may be presented in full and discussed descriptively in the text or may be summarized in tables. **Tables, pictures & graphs**
  - b. **Analysis of Data** – the interpretation of the findings and the significant features shown in tables, pictures and graphs are pointed out.

# Format: Project Write - Up



8. **Conclusions** – generalization, checks if the hypothesis is true and if the objectives were followed.
9. **Recommendations** – consist of suggestions on future actions such as new direction of research for further experiments to be performed
10. **Appendix**- pictures, formulas, standard procedures
11. **Bibliography** – list of references used in guiding the research work or writing of the paper, **alphabetically arranged**.

# General Concerns



1. **Example: Diastrophism pertains to all movements of the solid parts of the earth (Madriaga, 1995)**
2. **Alphabetize** the reference list based on the author's surname on a separate sheet of paper.
3. **For internet sources, follow this format: author.date.title.internet address. Example: Zarembo, C.2001.The Muscular System.http://www.sc2000.net/czaremba/noteslecture/nuclesno.html**



## General Concerns

- Scientific fraud and misconduct is not condoned at any level of research or competition. Plagiarism, use or presentation of other researcher's work as one's own and fabrication or falsification of data will not be tolerated. Fraudulent projects are disqualified for the competition.

# Reference

- <http://www.freesciencefairproject.com/requirements.htm>