



CALGARY YOUTH SCIENCE FAIR

Entry No: _____	Location: _____
Project Title: _____	
Student Name(s): _____	

Secondary Project – Judging Tally Sheet

1. SCIENTIFIC METHOD (Choose only one category, 1A, 1B or 1C)

Judge the project in **only one** of the following categories: *experimental (1A)*, *innovation (1B)*, or *study (1C)*. Please contact a member of the CYSF evaluations committee **before** judging if you have difficulty choosing a category.

Higher numbers indicate a better score.

1A. EXPERIMENTAL PROJECT – an investigation undertaken to test a scientific hypothesis using experimentation, usually featuring the identification and control of variables.

HYPOTHESIS / OBJECTIVE

- 1. Existing knowledge and background research were integrated into the formation of the hypothesis/objective.0 1 2 3 4 5
- 2. The hypothesis/objective related to the problem, was clearly stated, and provided direction for the project.0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

- 3. Experimental design was clearly described and appropriate for solving the problem.0 1 2 3 4
- 4. Manipulated and responding variables were identified and understood.0 1 2 3 4
- 5. Variables that could be controlled were recognized. The effect of variables that could not be controlled was understood...0 1 2 3 4
- 6. Repetitions of tests and/or appropriate sample size were used to achieve reliable results.0 1 2 3 4
- 7. The progress of the project was recorded in a log book.....0 1 2 3 4

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- 8. Appropriate methods were used to present and analyze data.....0 1 2 3 4 5
- 9. A connection was established between the hypothesis/objective and results.....0 1 2 3 4 5
- 10. The conclusions were supported by the data presented.0 1 2 3 4 5

SUBTOTAL / 15 _____

1B. INNOVATION PROJECT – the development and evaluation of innovative devices, models, or techniques in technology, engineering or computers.

PROBLEM / OBJECTIVE

- 1. Existing knowledge and background research were integrated into the formation of the problem/objective.0 1 2 3 4 5
- 2. A problem was clearly identified and provided direction for the project.....0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

- 3. Suitability and limitations of the chosen materials/methods were understood.....0 1 2 3 4 5
- 4. The project design was efficient, effective, and addressed the problem/objective.....0 1 2 3 4 5
- 5. The project design was appropriately tested.0 1 2 3 4 5
- 6. The progress of the project was recorded in a log book.....0 1 2 3 4 5

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- 7. A connection was established between the problem/objective and results.0 1 2 3 4 5
- 8. Testing was carried out to modify the project design and correct shortcomings as the project proceeded.0 1 2 3 4 5
- 9. The student understood how well the problem was solved.....0 1 2 3 4 5

SUBTOTAL / 15 _____

1. SCIENTIFIC METHOD CONT'D (Choose only one category, 1A, 1B or 1C)

1C. STUDY PROJECT – the collection and analysis of data to reveal evidence of a fact or situation of scientific interest, possibly including the study of cause and effect relationships or theoretical investigations of scientific data.

PROBLEM / OBJECTIVE

1. Existing knowledge and background research were integrated into the formation of the problem/objective.0 1 2 3 4 5
2. The objective was clearly stated, and provided direction and appropriate scope for the project.0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

3. The information acquired showed depth and variety.0 1 2 3 4 5
4. The data gathered were reliable and appropriate (multiple independent sources were used and verified).0 1 2 3 4 5
5. The research data were comprehensive and well-organized.0 1 2 3 4 5
6. The progress of the project was recorded in a log book.0 1 2 3 4 5

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

7. Data were critically analyzed.0 1 2 3 4 5
8. Conclusions were supported by the gathered data.0 1 2 3 4 5
9. New ideas were formulated.0 1 2 3 4 5

SUBTOTAL / 15 _____

SECTION 1 TOTAL / 45 _____

2. DEGREE OF DIFFICULTY

1. The project was exceptional (consider the student's grade level).0 1 2 3 4 5
2. The student gained a deeper understanding of the topic.0 1 2 3 4 5

SECTION 2 TOTAL / 10 _____

3. CREATIVITY AND INSIGHT

The student has:

1. Approached the problem with originality.0 1 2 3 4 5
2. Shown resourceful use of equipment and/or materials0 1 2 3 4 5
3. Indicated what improvements can be made to the project.0 1 2 3 4 5
4. Identified practical applications for the project.0 1 2 3 4 5
5. Identified future spin-offs (further research/experimentation) for his/her project.0 1 2 3 4 5

SECTION 3 TOTAL / 25 _____

4. COMMUNICATION

1. The oral presentation was clear, logical and concise.0 1 2 3 4 5
2. Answers to questions were clear and signified depth of understanding.0 1 2 3 4 5
3. All required written information was presented.0 1 2 3
4. Research materials were properly documented with appropriate credits and citations given.0 1 2 3 4
5. The visual display was effective, with a logical and self explanatory layout.0 1 2 3

SECTION 4 TOTAL / 20 _____

5. TOTAL SCORE

Add the scores from Sections 1 through 4 and record the final mark here.

TOTAL SCORE / 100 _____