



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.

Please use the following scale:

- 5 Excellent
- 4 Good
- 3 Satisfactory
- 2 Weak
- 1 Poor
- 0 Not Present

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

PROBLEM / HYPOTHESIS

- 1. Existing knowledge and background research were integrated into the formation of the problem/hypothesis.....0 1 2 3 4 5
- 2. The hypothesis 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 5
- 4. Controlled, manipulated and responding variables were identified and understood.....0 1 2 3 4 5
- 5. Repetitions of tests and/or appropriate sample size were used to achieve reliable results.0 1 2 3 4 5
- 6. Logbook recorded progress of the project including detailed procedures, results and original data.....0 1 2 3 4 5

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- 7. Appropriate methods were used to present and analyze data (e.g. graphs, charts and statistics).....0 1 2 3 4 5
- 8. Sources of error and experimental limitations (e.g. the effect of variables that could not be controlled) were understood.....0 1 2 3 4 5
- 9. Conclusions were related to the problem/hypothesis and 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. Logbook recorded progress of the project, including detailed procedures, results and modifications.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 surveys, the study of cause and effect relationships, or theoretical investigations of previously published scientific data.

PROBLEM / OBJECTIVE

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

SUBTOTAL / 10 _____

METHOD

- The information acquired showed depth and variety.0 1 2 3 4 5
- The data gathered were reliable and appropriate (multiple independent sources were used and verified).0 1 2 3 4 5
- The research data were comprehensive and well-organized.0 1 2 3 4 5
- Logbook recorded progress of the project including detailed research notes, resources and discussions.0 1 2 3 4 5

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- Key scientific concepts, including alternate viewpoints, of the research topic were identified and explored.0 1 2 3 4 5
- Critical analysis/interpretation of research material was presented (e.g. comparison of sources, surveys and statistics).0 1 2 3 4 5
- Logical conclusions based on the research were reached.0 1 2 3 4 5

SUBTOTAL / 15 _____

SECTION 1 TOTAL / 45 _____

2. CREATIVITY AND INSIGHT

- The problem was approached with originality.0 1 2 3 4 5
- Independent motivation, design and thinking were demonstrated.0 1 2 3 4 5
- Resourceful use of equipment and/or materials was shown.0 1 2 3 4 5
- Improvements that can be made to the project were indicated.0 1 2 3 4 5
- Practical applications and future research for the project were identified.0 1 2 3 4 5

SECTION 2 TOTAL / 25 _____

3. COMMUNICATION

- The oral presentation was clear, logical and concise.0 1 2 3 4 5
- Answers to questions were clear and signified depth of understanding.0 1 2 3 4 5
- All required written information including credits, citations and applicable ethics/consent forms were presented.0 1 2 3 4 5
- The visual display was effective, with a logical and self-explanatory layout.0 1 2 3 4 5

SECTION 3 TOTAL / 20 _____

4. DEGREE OF DIFFICULTY

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

SECTION 4 TOTAL / 10 _____

5. TOTAL SCORE

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

TOTAL SCORE / 100 _____