



CALGARY YOUTH SCIENCE FAIR

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

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 have been integrated into the formation of the hypothesis/objective.0 1 2 3 4 5
- 2. The hypothesis/objective relates to the problem, is clearly stated, and provides direction for the project.0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

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

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- 8. Appropriate methods have been used to present and analyze data.....0 1 2 3 4 5
- 9. A connection has been established between the hypothesis/objective and results.....0 1 2 3 4 5
- 10. The conclusions are 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 have been integrated into the formation of the problem/objective.0 1 2 3 4 5
- 2. A problem has been clearly identified and provides direction for the project.....0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

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

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

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

- Existing knowledge and background research have been integrated into the formation of the problem/objective.0 1 2 3 4 5
- The objective has been clearly stated, and provides direction and appropriate scope for the project.0 1 2 3 4 5

SUBTOTAL / 10 _____

METHOD

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

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

- Data have been critically analyzed.0 1 2 3 4 5
- Conclusions are supported by the gathered data.0 1 2 3 4 5
- New ideas have been formulated.0 1 2 3 4 5

SUBTOTAL / 15 _____

SECTION 1 TOTAL / 45 _____

2. DEGREE OF DIFFICULTY

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

SECTION 2 TOTAL / 10 _____

3. CREATIVITY AND INSIGHT

The student has:

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

SECTION 3 TOTAL / 25 _____

4. 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 was presented.....0 1 2 3
- Research materials were properly documented.....0 1 2 3
- The visual display is effective, with a logical and self explanatory layout.....0 1 2 3 4

SECTION 4 TOTAL / 20 _____

5. TOTAL SCORE

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

TOTAL SCORE / 100 _____