**FRASER VALLEY REGIONAL SCIENCE FAIR**

Entry No: _____

Student Name(s): _____

# Divisional Award – 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 see a member of the FVRSF 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 (including Log Book)

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 (including Log Book)

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

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 (including Log Book)

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. Logbook recorded progress of the project including detailed research notes, resources and discussions. .....0 1 2 3 4 5

SUBTOTAL / 20 _____

ANALYSIS / CONCLUSIONS

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

SUBTOTAL / 15 _____

**SECTION 1 TOTAL / 45** _____

## 2. CREATIVITY AND INSIGHT

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

**SECTION 2 TOTAL / 25** _____

## 3. VISUAL DISPLAY

1. The visual display was effective and well-constructed. .....0 1 2 3 4 5
2. They layout was logical and self-explanatory . .....0 1 2 3 4 5

**SECTION 3 TOTAL / 10** _____

## 4. ORAL PRESENTATION

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

**SECTION 4 TOTAL / 10** _____

## 5. REPORT

1. The report was well-organized, readable, and thorough. .....0 1 2 3 4 5
2. All other required information including credits, citations, and applicable ethics/consent forms were present. .....0 1 2 3 4 5

**SECTION 5 TOTAL / 10** _____

## TOTAL SCORE

Add the scores from Sections 1 through 5 and record the final mark here.

**TOTAL SCORE / 100** _____