

# Judging Form



Project Number \_\_\_\_\_ Project Title \_\_\_\_\_

Part A: Scientific Thinking		Mark: _____ / 50
<b>Discovery:</b> An experiment or study	<b>Innovation:</b> Develop devices, models or techniques	
<b>Level 1 Mark Range 26 to 30</b>		
Replicate a known experiment to confirm previous findings or collate data from a variety of sources without further analysis.	Build models (devices) to duplicate existing technology or to demonstrate a well known physical theory or social/behavioural intervention.	
<b>Level 2 Mark Range 31 to 35</b>		
Extend a known experiment with modest improvements to procedures, data gathering or application; or synthesize data from a variety of sources to confirm existing conclusions. Attempts to address a specific issue.	Improve or demonstrate new applications for existing technological systems, social or behavioural interventions, existing physical theories or equipment, and justify them.	
<b>Level 3 Mark Range 36 to 41</b>		
Devise and carry out an original experiment. Identify and control some of the significant variables or synthesize data from a variety of sources to strengthen or extend existing conclusions. Carry out an analysis using arithmetic, graphs or simple statistics.	Design and build innovative technology or provide adaptations to existing technology or to social or behavioural interventions; extend or create new physical theory. Human benefit, advancement of knowledge and/or economic applications should be evident.	
<b>Level 4 Mark Range 42 to 50</b>		
Devise and carry out original experimental research which attempts to control or investigate most significant variables. Data analysis is thorough and complete for the grade level. There is internal consistency – all parts of the report address the purpose. Results are related to real world significance. Further studies are suggested.	Integrate several technologies, inventions or designs and construct an innovative application that will have human and/or commercial benefit. Performance of the prototype or procedure is thoroughly evaluated. Suggestions for improvement are made. Relevance and significance of the work is explained.	

Part B: Creativity and Originality				Mark: _____ / 20
Level 1 (10 to 11)	Level 2 (12 to 14)	Level 3 (14 to 15)	Level 4 (16 to 20)	
Simple design with little student input. A textbook /internet type project.	Some creativity in a project of fair to good design. Topic is a common one.	Imaginative project, well thought out. Some creativity in design or use of materials.	Highly original approach, showing much resourcefulness and creativity in design, use of equipment, or analysis.	

Part C: Communication				Total Mark: _____ / 30
The level is based on six elements: project report, summary, video, interview, online project and sample logbook pages.				
Level 1 (15 to 17)	Level 2 (18 to 20)	Level 3 (21 to 24)	Level 4 (25 to 30)	
Most or all of the six elements are simple or incomplete. There is little evidence of attention to effective communication. In a pair project, one member may have dominated the presentation.	Some of the six elements are simple, or incomplete, but there is evidence of student attention to communication. In a pair project, one member may have made a stronger contribution to the presentation.	All six elements are complete and demonstrate attention to detail. The communication components are each well thought out and executed. In a pair project, both members made an equitable contribution to the presentation.	All 6 elements are complete and exceed age/grade expectations. The visual displays are logical and well presented. The project report and logbook are informative and clearly written. The bibliography goes beyond web-based articles. The oral presentation is clear, logical, enthusiastic and contributed to equally in a pair project.	

Submit your Ranking Summary form to [qrstfscience@gmail.com](mailto:qrstfscience@gmail.com) after completing your ranking. **These forms are not to be given to students.** Email the *Project Feedback* form to each student.

**Total Score: \_\_\_\_\_ / 100** March 2021