Identify the Type of Project			
Project Category (project must meet 2 of the 4 criteria)			
Science	Technology	Engineering	Math

Innovation - Develop and evaluate new devices, models, methods in technology, engineering, and Code.

Part 1 - Project Vision

Part 1 - Project vision				
Level 4	Level 3	Level 2	Level 1	
Complexity of Experi	ment			
Integrate several technologies, inventions or design and construct an innovative application that will have human and/or commercial benefit	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	Improve or demonstrate new applications for existing technological systems, social or behavioural interventions, existing physical theories or equipment, and justify them	Build a model or device or device to duplicate existing technology or to demonstrate a well-known physical theory or social/ behavioural intervention	
Content Understandi	ng			
Student demonstrates mastery of content understanding and reflects deep understanding of current applications	Student demonstrates content understanding and reflects understanding of current applications	Content explanations is fair, however further attention to detail is required	Inconsistent evidence of content understanding	
Creativity				
This highly original project demonstrates a novel approach. It shows resourcefulness and creativity in the design, use of equipment, construction and/or the analysis.	This imaginative project makes creative use of available resources. It is well thought out, and some aspects are above average	The project design is simple with some evidence of student imagination. It uses common resources or equipment. The topic is current or common one.	The project design is simple with little evidence of student imagination. It can be found in books, magazines, or on popular web sites	
Innovative use of Technology				
Distinguish use of technology is evident both in product and project design	Use of technology is evident both in project and project design	Technology used simply as a presentation tool rather than integrated within project	Minimal use of technology	
Evidence of Problem Solving				
Student uses a complex method of problem solving throughout project	Some problem solving evident	Inconsistent problem solving technique	Minimal use of effective problem solving	

Part 2 - Planning the Project

Science Process Skills			
Exceeding - 4	Meeting - 3	Approaching -2	Working Below -1
Testable Question			
	Language of question suggest the design of a device using specific language	Language of question suggest the design of a device but not specific to the parameters	Any other answer
Designing Investiga	ations		
Students can Independently, Procedures have a set of steps to test a single question Procedural design minimizes experimental bias Procedures are detailed enough to be repeated by someone else Procedures identify needed equipment and materials Procedures identify relevant measurements and/or observations to be made	Students can independently - procedures have a set of steps to test a single question - procedures are detailed enough to be repeated by someone else - procedure identifies needed equipment and materials - procedure identifies relevant measurements and/or observations to be made	Students require support to perform 3 of the following: - procedures have a set of steps to test a single question - procedures are detailed enough to be repeated by someone else - procedure identifies needed equipment and materials - procedure identifies relevant measurements and/or observations to be made	Any other answer

Exceeding - 4	Meeting - 3	Approaching -2	Working Below -1	
Collecting and Recor	Collecting and Recording Data			
	Students are recording as many numbers as accurately as possible. They are detailed in their working and accounting for every piece of relevant data possible	Students are recording some numbers and are recording most relevant data	Students are not recording number data as a priority and are focused on irrelevant observations Any other answer	
Evaluating Design				
Students identify all relevant flaws that require change and describes how each item will be changed	Students identify all relevant flaws that require change	Student identified one relevant flaw that requires change	Any other answer	

Exceeding - 4	Meeting - 3	Approaching -2	Working Below -1
Conclusions			
Is relevant to initial question Describes the key factor to the design Evaluates the usefulness of a constructed design Must include suggestions to improve experimental design (i.e., efficiency of design or materials)	Is relevant to initial question Describes the key factors to the design Evaluate the usefulness of a constructed design	Is relevant to initial question Restates only the recorded results or is a result of flawed reasoning	Any other answer

Part 4 - Project Presentation

Oral Presentation			
Exceeding - 4	Meeting - 3	Approaching - 2	Working Below - 1
Student gives a clear, logical, enthusiastic presentation about the topics. Student is able to respond to high level thinking questions related to the topic	Student gives a clear, logical, enthusiastic presentation about the topic. Student is able to answer general questions related to the topic	Student gives a somewhat clear/logical presentation about the topic. Student is able to answer rudimentary questions about the topic	Student gives a rehearsed presentation but cannot elaborate much on questions related to the topic.

Visual Display			
Exceeding - 4	Meeting - 3	Approaching - 2	Working Below - 1
The layout of the display flows in a logical manner. The exhibit is attractive and self-explanatory. The most relevant information is what is keyed on.	The layout of the display flows in a logical manner. The exhibit is attractive and self-explanatory	All elements of the scientific method related to the project type are present but display is convoluted. Physical demonstrations distract from key findings	A standard scientific method is displayed but may not include all key science skills and/or a physical demonstration is the focus