

INVENTIONS

JUDGE'S EVALUATION FORM

FULL NAME OF ENTRANT(s)	
ENTRY CODE	SCHOOL CODE
TITLE	

If there are errors to Entry details, please alert STS Coordinator and provide update required in Comment section below

LOWER PRIMARY (F – Year 2)
 MIDDLE PRIMARY (Year 3 – 4)
 UPPER PRIMARY (Year 5 – 6)
 JUNIOR (Year 7 – 8)
 INTERMEDIATE (Year 9 – 10)
 OPEN (Year 11 – 12)

INVENTION		Excellent	Very Good	Good – Satisfactory	Needs Improvement	Not Shown	Sub-total
1	WORKING INVENTION?	YES (Interactive)			NO (Static)		Y / N
2	SIZE Meets the size criteria?	YES or EXEMPTION			NO		Y / E / N
3	Construction	10 – 9	8 – 7	6 – 5	4 – 3 – 2	1 – 0	/10
		Invention demonstrates a high degree of skill in its construction. It is sturdy and well presented in its craftsmanship with attention to detail.	Invention is sturdy and well constructed. Presentation is fair.	Invention is reasonably sturdy, but the craftsmanship could be improved.	Invention is somewhat fragile and is poorly constructed in areas. Some attention to detail in its presentation.	Invention is fragile and is poorly constructed. Little attention to detail in its presentation.	
4	Parts and Materials	7 – 6	5 – 4	3 – 2	1 – 0		/7
		Resourcefulness of parts used. Innovative use of materials with a high degree of consideration of materials in design regarding application & affordability.	Some consideration of appropriate materials in design application.	Insufficient regard for appropriate materials in design.	Very little consideration for parts and materials used or model is constructed from kits without original input.		
5	Ease of use	3		2	1 – 0		/3
		Invention is easy to use, instructions included are clear.		Invention works with minor coaxing with brief instructions.	Invention is difficult to use with little or no instructions.		
6	Inventiveness and/or Innovative Originality	10 – 9	8 – 7	6 – 5	4 – 3 – 2	1 – 0	/10
		Highly original and creative. An innovative approach to solving a real problem.	An original idea that uses some creative approach to solve a real problem.	Invention shows original idea but lacks creative approach.	The Invention is not original but student has shown initiative in building it.	A common idea or kit with only little original input from student.	
7	Scientific Principle Demonstration/application of the scientific principle in the invention.	10 – 9	8 – 7	6 – 5	4 – 3 – 2	1 – 0	/10
		The scientific principle is being demonstrated clearly and completely.	The principle being demonstrated lacks slightly in completeness.	The scientific principle is being demonstrated correctly but not necessarily clearly.	Scientific principle is being demonstrated but superficially.	The principle demonstrated is incorrect in some of its aspects or incomplete in its expression, or not addressed.	
SUBTOTAL							/40

Evaluation continued on next page

REPORT		Excellent	Very Good	Good – Satisfactory	Needs Improvement	Not Shown	Sub-total
8	Introduction	3		2	1 – 0		/3
		Clear explanation for the ideas behind the invention and how it is original or an innovation. Identifies how it is important, relevant or solves a real problem.		A fair attempt to explain the invention and how it is original.	Limited or no description of the invention. Unclear with regard to solving a real problem.		
9	Instructions	2			1 – 0		/2
		Clear and easy to use operating instructions.			Operating instructions provided, but are difficult to follow. Or no instructions at all.		
10	Design brief Methods of design and redesign with annotated notes on the applied science.	8 – 7	6 – 5	4	3 – 2	1 – 0	/8
		Includes annotated diagrams of the design(s) and redesign of the invention with evident use of scientific principles. Safety considerations in the design with an extensive Risk Assessment Form.	Includes some annotated diagrams of the design, some scientific principles applied. Safety considerations mentioned with a Risk Assessment Form.	A satisfactory attempt to design the invention, with limited annotations and safety considerations.	A rough design of the invention, with limited annotations and safety considerations.	Limited to no design of the invention or safety considerations	
11	Discussion Science theory and/or application. Design limitations, further development. Research and understanding evident.	5	4	3	2	1 – 0	/5
		Discusses in depth the science theories and/or it's application for the invention built. Problems encountered and how it was overcome. Limitations of the design discussed and recommend potential improvements for further development.	Good discussion of the science theories and/or it's application for the invention built. Problems encountered and how it was overcome.	Satisfactory discussion of the science theories and/or it's application for the invention built. Problems encountered and how it was overcome.	Some attempt to discuss the invention and the scientific principles demonstrated or applied.	Little to no attempt to discuss the invention and the scientific principles demonstrated or applied.	
12	Acknowledgements And References	3		2	1 – 0		/3
		Clearly and accurately acknowledges sources used and assistance provided.		Some sources and assistance acknowledged.	Limited or no sources and/or assistance acknowledged.		
13	Presentation & Guidelines Word limit excludes log book.	2		1		0	/2
		Neat and clear presentation. Report is within 1000 word limit. Photo attached.		A combination of one or two of the presentation and report guidelines.		No report.	
SUBTOTAL							/23
ORAL PRESENTATION		Excellent	Very Good	Good – Satisfactory	Needs Improvement	Not Shown	Sub-total
14	Verbal Explanation Demonstration of evidence for student work and understanding. For Country/Regional/ Special Metro/Jewish School: Use the video to base your score.	7	6 – 5	4 – 3	2 – 1	0	/7
		Student appears to have an excellent understanding of principle. A clear and accurate explanation was given of principle and process of design. Evidence of student work and knowledge.	Student appears to have a very good understanding of principle or its application to the invention but is not clear in all respects. Problems in design process clearly identified.	Student appears to have a fair understanding of principle or its application to the invention but is not clear in all respects. Problems in design process clearly identified.	Student does not appear clear on the scientific principle. Few design process addressed.	Student appeared to have little idea of the scientific principle or use of invention.	
SUBTOTAL							/7
SUITABLE FOR STS PUBLICITY YES <input type="checkbox"/> NO <input type="checkbox"/>						TOTAL	/70

Judge's recommendation for the entry: Major Minor Distinction Merit Acknowledgement
(Please note: this is only a **recommendation**. Further moderation may result in a different outcome based on number of entries and available bursaries)

Your comments are important in establishing student understanding and help with our moderation

Judge's comments.....
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Judge's name..... Judge's signature.....