

**Judge's Marking Sheet**  
**Frontenac Lennox & Addington Science Fair, Kingston, Ontario 2004**

<b>PART A: SCIENTIFIC THOUGHT - 45 %</b>			<b>Mark</b>
<b>Experiment</b>	<b>Innovation</b>	<b>Study</b>	
An investigation undertaken to test a scientific hypothesis using experiments. Experimental variables, if identified, are controlled to some extent.	The development and evaluation of innovative devices, models or techniques or approaches in technology, engineering or computers (hardware or software).	A collection and analysis of data to reveal evidence of a fact or a situation of scientific interest. It could include a study of cause and affect relationships or theoretical investigations of scientific data.	
<b>Level 1 (low) Mark Range 5 to 15</b>			
Duplication of a known experiment to confirm the hypothesis. The hypothesis is totally predictable.	Building models (devices) to duplicate existing technology.	Study of existing printed material related to the basic issue.	
<b>Level 2 (fair) Mark Range 15 to 25</b>			
Extend a known experiment through modification of procedures, data gathering, and application.	Make improvements to, or demonstrate new applications for existing technological systems or equipment and justify them.	Study of material collected through compilation of existing data and through personal observations. Display attempts to address a specific issue.	
<b>Level 3 (good) Mark Range 25 to 35</b>			
Devise and carry out an original experiment with controls. Variables identified. Some significant variables are controlled. Analysis such as graphs/simple statistics.	Design and build innovative technology or provide adaptations to existing technology that will have human benefit and/or economic applications.	Study based on observations and literary research illustrating various options for dealing with a relevant issue. Appropriate analysis (arithmetic, statistical, or graphical) of some significant variable(s).	
<b>Level 4 (excellent) Mark Range 35 to 45</b>			
Devise and carry out original experimental research which attempts to control or investigate most significant variables. Data analysis includes statistical analysis.	Integrate several technologies, inventions or designs and construct an innovative technological system that will have human and/or commercial benefit.	Study correlating information from a variety of significant sources which may illustrate cause and effect or original solutions to current problems through synthesis. Significant variable(s) are identified with in-depth statistical analysis of data.	

<b>PART B: ORIGINAL CREATIVITY - 25%</b>			
<b>Rank 1 (low)</b> <b>Mark Range 5 to 10</b>	<b>Rank 2 (fair)</b> <b>Mark Range 10 to 15</b>	<b>Rank 3 (good)</b> <b>Mark Range 15 to 20</b>	<b>Rank 4 (excellent)</b> <b>Mark Range 20 to 25</b>
Little imagination shown. Project design is simple with minimal student input. A textbook or magazine type project.	Some creativity shown in a project of fair to good design. Standard approach using common resources or equipment. Topic is a current or common one.	Imaginative project, Good use of available resources. Well thought out, above ordinary approach. Creativity in design and/or use of materials.	A highly original project or a novel approach. Shows resourcefulness, creativity in design, use of equipment and/or construction of project.
<b>Mark</b>			

**Judge's Marking Sheet**  
**Frontenac Lennox & Addington Science Fair, Kingston, Ontario 2004**  
**Duncan MacArthur Hall**

<b>USE FOR JUNIOR, INTERMEDIATE &amp; SENIOR PROJECTS</b>
<b>PROJECT ID:</b>

<b>PART C: DISPLAY Maximum 20 Marks</b>		
<b>1. Skill (Maximum 10 Marks)</b>	<b>Max</b>	<b>Mark</b>
Necessary scientific skill shown.	3	
Exhibit was well constructed.	3	
Material prepared independently.	2	
Judge's discretion.	2	
<b>2. Dramatic Value (Max 10 Marks)</b>		
Layout logical and self-explanatory.	3	
Exhibit attractive.	3	
Clear logical enthusiastic presentation.	3	
Judge's discretion.	1	
<b>Total Display Mark</b>	<b>20</b>	

<b>PART D: PRE-FAIR REPORT Maximum 10 Marks</b>		
	<b>Max</b>	<b>Mark</b>
<b>1. Information</b>	5	
clarity of presentation, logical arrangement, extent to which report provides self- contained & accurate description of project, amount & nature of information		
<b>2. Presentation</b>	2	
Neatness, grammar, spelling in the report.		
<b>3. Overall Impact &amp; Impression</b>	3	
<b>Total Pre-Fair Report Mark</b>	<b>10</b>	

<b>Total Marks</b>		
Part A: Scientific Thought (from page 1).	45	
Part B: Original Creativity (from page 1).	25	
Part C: Display.	20	
Part D: Pre-Fair Report.	10	
<b>Total Mark awarded to this exhibit.</b>	<b>100</b>	

<b>Judge's Name (Please Print!)</b>	<b>Judge's Signature</b>
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Use this form to give a mark to each exhibit. This mark will be averaged with that of the other judges assigned to this project.  
**Return this form to the scorer in the judges' room.**

(tear or cut here)

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**FRONTENAC LENNOX & ADDINGTON SCIENCE FAIR 2004**

<b>EXHIBITOR FEEDBACK</b>	<b>NAME(S):</b>	<b>PROJECT ID:</b>
<b>Strengths:</b> _____		
<b>Recommendations:</b> _____		