

Judging Criteria:	Top of the range: 5 Complete, Thorough, Significant	Upper range: 4 Solid understanding Lacks a few specifics but well developed or explained overall	Mid-range: 3 Limited understanding or scope, Adequate but insufficient understanding or explanation	Lower range: 2 Minimal information Lacks sufficient detail Lacks understanding	Bottom range:1 Component missing, not present or exceedingly inadequate
EXPERIMENTAL PROJECTS					
			Methodology & Project Design	The experiment research question was well defined; a hypothesis is made.	
	<i>Category 1</i>			All variables and controls are well defined and appropriate.	
				The scope and limitations of the project are recognized by the exhibitor.	
				The experimental design is presented in detail and is reproducible and efficient.	
				Appropriate use of equipment and materials, including surveys, is evident.	
			Data Collection	Extensive, relevant data are collected.	
	<i>Category 2</i>			Data are clearly presented with appropriate units.	
				Extensive observations and notes are recorded.	
				Data collection is done with consistent and repeatable methods.	
			Data Presentation & Analysis	Data are presented in visual form using graphics, tables, diagrams, models, etc.	
				Data are evaluated for relevance to original problem.	
	<i>Category 3</i>			The data are used to answer the experimental question.	
				The relationships between variables are clearly discussed and supported with data and observations.	
				The hypothesis is accepted or rejected and discussed.	
			Background & Topic Information	Evidence of significant research is provided including a bibliography.	
	<i>Category 4</i>			All terms and concepts relating to the project are defined.	

				Exhibitor is able to discuss topic with ease.		
			Presentation of Project (Poster Board)	The poster is neat and visually pleasing.		
	<i>Category 5</i>			Information on the poster is well organized.		
				Writing on the poster has appropriate details, correct grammar and spelling.		
				Sufficient information on all aspects of the poster is provided.		
			Creativity and Ingenuity	The methodology of the project is original and creative.		
	<i>Category 6</i>			The exhibitor shows a clear interest in the nature of the project.		
				A unique approach to problem solving is shown.		
Judging Criteria:		Top of the range: 5 Complete, Thorough, Significant	Upper range: 4 Solid understanding Lacks a few specifics but well developed or explained overall	Mid-range: 3 Limited understanding or scope, Adequate but insufficient understanding or explanation	Lower range: 2 Minimal information Lacks sufficient detail Lacks understanding	Bottom range:1 Component missing, not present or exceedingly inadequate
ENGINEERING, COMPUTERS SCIENCE, & MATHAMATICS PROJECTS						
	<i>Category 1</i>	Project Design	The design brief is well defined, clearly worded, with measurable performance goals.			
			Scope and limitations of project are recognized by the exhibitor.			
			Engineering design is presented in detail and is reproducible and efficient.			
			Appropriate use of equipment and material is displayed.			
		Documentation of Design Process	Documentation is clearly presented with details and diagrams.			
	<i>Category 2</i>		A discussion of considerations that influenced end design of the final product.			
			A flow chart describing factors that lead to final design is included.			
			Suggestions are given for further modifications and feature enhancement.			
	<i>Category 3</i>		Proof that device works in a reproducible manner is presented.			

		Evaluation and Testing	Flow chart or other evidence demonstrating how device meets the stated design brief.
			Evaluation of the extent to which the solution solves the stated design problem and why other alternative designs were not pursued.
		Background & Topic Information	Evidence of significant research is provided including a bibliography.
	<i>Category 4</i>		All terms and concepts relating to the project are defined.
			Exhibitor is able to discuss topic with ease
		Presentation of Project (Poster Board)	The poster is neat and visually pleasing.
	<i>Category 5</i>		Information on the poster is well organized.
			Writing on the poster has appropriate details, correct grammar and spelling.
			Sufficient information on all aspects of the poster is provided.
		Creativity and Ingenuity	The methodology of the project is original and creative.
	<i>Category 6</i>		The exhibitor shows a clear interest in the nature of the project.
			A unique approach to problem solving is shown.

Appreciation to the Massachusetts Science & Engineering Fair (MSEF) for content contributions.