SIM Science & Engineering Fair

JUDGING CRITERIA

Science Project Judging Criteria	Engineering Project Judging Criteria
Science Project Judging Criteria Research Question (10 pts.) a. Clear and focused purpose b. Identifies contribution to field of study c. Testable using scientific methods Design and Methodology (25 pts.) a. Well-designed plan and data collection methods b. Variables and controls defined, appropriate and complete c. Degree of independence in conducting project d. Recognition of potential impact in science, society and/or economics e. Quality of ideas for further research Execution: Data Collection, Analysis and Interpretation (30 pts.) a. Systematic data collection and analysis b. Reproducibility of results c. Appropriate application of mathematical and statistical methods d. Sufficient data collected to support interpretation and conclusions e. Understanding of basic science relevant to project f. Understanding interpretation and limitations of results and conclusions	 Engineering Project Judging Criteria Research Question (10 pts.) a. Description of a practical need or problem to be solved b. Definition of criteria for proposed solution c. Explanation of constraints Design and Methodology (25 pts.) a. Exploration of alternatives to answer need or problem b. Identification of a solution c. Development of a prototype/model d. Degree of independence in conducting project e. Recognition of potential impact in science, society and/or economics f. Quality of ideas for further research Execution: Construction and Testing (30 pts.) a. Prototype demonstrates intended design b. Prototype demonstrates engineering skill and completeness d. Understanding of basic science relevant to project e. Understanding interpretation and limitations of results and conclusions
 Creativity (20 pts.) Project demonstrates significant creativity in one or more of the above criteria Presentation Display (15 pts.) Logical organization of material Clarity of graphics and legends Supporting documentation displayed 	Creativity (20 pts.) a. Project demonstrates significant creativity in one or more of the above criteria Presentation Display (15 pts.) a. a. Logical organization of material b. Clarity of graphics and legends c. Supporting documentation displayed