GWINNETT
SCIENCE, ENGINEERING + INNOVATION FAIR

Gwinnett Regional Science & Engineering Fair Project Evaluation Form

Adapted from Georgia Science & Engineering Fair Scoring Sheet

Judging Categories	Maximum Points	Science Projects (may be applied to projects the focus on research, investigation, scientific method)	Engineering Projects (may be applied to projects with a designed prototype device or prototype computer program)
Research Question or Problem	10	● clear and focused purpose ● identifies a specific contribution to field of study/significance ● testable using scientific methods	● description of a practical need or problem to be solved ● definition of criteria for proposed solution ● explanation of constraints
Design and Methodology	20	**Investigative Research Design & Methods** ● well-designed plan and data collection methods ● variables and controls defined, appropriate and complete ● reproducibility of methods/procedure / multiple trials conducted	**Engineering Design & Methods** ● identification of a problem needing to be solved and the impact the problem has on an entity (ex: individuals, the environment, etc) ● exploration of existing options/alternatives to solve the problem ● identification of a solution and rationale behind why the designed solution will meet the need for the problem ● design and development of prototype development of a prototype including iterations and modifications based on trials and constraints
Execution of Project	20	**Data Collection, Analysis & Interpretation** ● systematic data collection and analysis (student can articulate their process and findings) ● reproducibility of results (multiple trials) ● appropriate application of mathematics and statistical methods as applicable for student's	**Construction & Testing** ● prototype demonstrates intended design and can be tested ● prototype has been tested in multiple conditions/trials ● prototype demonstrates engineering skill,

		grade level and development (see Math guidance document) ● claim(s)/conclusion(s) are accurate and sufficient evidence, data, and statistics support conclusion(s)	design, and function ● claim(s) about the prototype
Creativity	20	● project demonstrates significant creativity/originality/inventiveness in approach, design and/or execution ○ project uses original or creative ways to investigate a phenomena, problem, and/or develop a solution ○ Project results in a creative application of project results or a creative solution to a problem ● project provides new learning, new solutions and new questioning in an authentic way	
Project Board	5	● logical organization of material professional looking, clear ● supporting graphs/charts/documentation, images, and information is easy to understand	
Presentation	25	● clear, concise, thoughtful ability to explain the project without reading notes/reading off the project board ● explains the scientific/engineering principles relevant to project using appropriate terminology, but in their own words ● understanding of interpretation and limitations of results and conclusions or constraints of conclusion or prototype ● clear degree of independence in conducting project; able to respond to questions with authentic, on the spot answers ● recognition of potential impact in science, society and/or economics ● quality of ideas for further research ● authentic and demonstrative answers to questions; uses data and application of scientific principles to provide reason ● for team projects, contributions to and understanding of project by all members	
TOTAL	100	(Final scores are submitted through the digital scoring form - link)	

Sample Typical Ranges to Consider: 0 - 59 (Below Average); 60 - 79 (Average); 80 - 90 (Above Average); 91 - 97 (Excellent/State Quality); >97 (Exceptional/ISEF Quality)

Summary Judgment: In your opinion, should this project advance to the state level competition?: **Yes** **No** **Maybe**
In your opinion, should this project advance to the Regeneron International Science & Engineering Fair? [HS Only] **Yes** **No** **Maybe**

Teachers and students should consider these judging criteria when planning science projects and school-level fairs. They are based on the Regeneron ISEF and Georgia Science and Engineering Fair criteria. ISEF and GSEF offer a second set of criteria that may be applied to projects in engineering, mathematics and computer science, where appropriate, as included above.

Overall, the updated criteria emphasis include:

- Increased emphasis on the ability to discuss the project effectively during the oral presentation.
- Increased emphasis on originality of project topics and on research plans that demonstrate creativity, imagination, discovery, and inventiveness.