



Louisville Regional Science & Engineering Fair

Promoting creativity and building the future for kids

Judging Criteria

for all category projects

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I. Research Question (for Science) or Research Problem (for Engineering): 10 points

Science	Engineering
<ul style="list-style-type: none">• clear and focused purpose• identifies contribution to field of study• testable using scientific methods	<ul style="list-style-type: none">• description of a practical need or problem to be solved• definition of criteria for proposed solution• explanation of constraints

II. Design and Methodology: 15 points

Science	Engineering
<ul style="list-style-type: none">• well-designed plan and data collection methods• variables and controls defined, appropriate and complete	<ul style="list-style-type: none">• exploration of alternatives to answer need or problem• identification of a solution• development of a prototype/model

III. Execution: 20 points

Science	Engineering
<ul style="list-style-type: none">• systematic data collection and analysis• reproducibility of results• appropriate application of mathematical and statistical methods• sufficient data collected to support interpretation and conclusions	<ul style="list-style-type: none">• prototype demonstrates intended design• prototype has been tested in multiple conditions/trials• prototype demonstrates engineering skill and completeness

IV. Creativity: 20 points

- Project demonstrates significant creativity in one or more of the above criteria

V: Presentation: 35 points

- Poster (10 points)
 - logical organization of material
 - clarity of graphics and legends
 - supporting documentation displayed
- Interview (25 points)
 - clear, concise, thoughtful responses to questions
 - understanding of basic science relevant to project
 - understanding interpretation and limitations of results and conclusions
 - degree of independence in conducting project
 - recognition of potential impact in science, society and/or economics
 - quality of ideas for further research
 - for team projects, contributions to and understanding of project by all members

This judging criteria was adopted 2/10/2014.



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