DC4STEM Fair & Competition: Scoring Rubrics

If you have any questions or concerns, please email leadership@dc4stem.org.

* Indicates required question

Criteria and Rubric for Science and Math Projects

- 1. Research Question (10 POINTS) *
 - Clear and focused purpose
 - Identifies contribution to field of study
 - Testable using scientific methods

- 2. Design & Methodology (15 POINTS) *
 - Well-designed plan and data collection methods
 - Variables and controls defined, appropriate, and complete

3. Execution: Data Collection, Analysis, and Interpretation (20 POINTS) *

- Systematic data collection and analysis
- · Reproducibility of results
- Appropriate application of mathematical and statistical methods
- Sufficient data collected to support interpretation and conclusions
- Recognition of limitations of results and conclusions

4. Poster Display/Project Materials (10 POINTS) *

- · Logical organization of material
- Clarity of graphics and legends
- Supporting documents displayed

5. Creativity (20 POINTS) *

- Project demonstrates significant creativity in one or more of the above criteria
- Recognition of potential impact in science, society, and/or economics
- Quality of ideas for further research

6.	Please provide feedback to the student(s). After review, your feedback may be shared with the student(s).			
Cı	riteria and Rubric for Engineering Projects			
7.	Research Problem (10 POINTS) * • Description of a practical need or problem to be solved • Definition of criteria for proposed solution • Explanation of constraints			

8. Design and Methodology (15 POINTS) *

- Exploration of alternatives to answer need or problem
- Identification of a solution
- Development of a prototype/model

9. Execution: Construction and Testing (20 POINTS) *

- Prototype demonstrates intended design
- Prototype has been tested in multiple conditions/trials
- Prototype demonstrates engineering skill and completeness
- Recognition of limitations of results and conclusions

10. Poster Display/Project Materials (10 POINTS) *

- Logical organization of material
- Clarity of graphics and legends
- · Supporting documents displayed

11.	Creativity (20 POINTS) *
	 Project demonstrates significant creativity in one or more of the above criteria Recognition of potential impact in science, society, and/or economics Quality of ideas for further research
12.	Places provide feedback to the student(e)
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Criteria and Rubric for Art Projects

13.	Technical	Skill	(25	POINTS) [*]
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- Demonstrates strong skill with the media/category
- · Is clear, well organized, and coherent
- · Contains very few technical errors or flaws, if any
- Citations are effectively utilized and refer to an accurate works cited page (if applicable)

14. Interpretation of STEM Theme(s) (25 POINTS) *

- Clearly articulates and demonstrates connections to one or more science, technology, engineering, or mathematics themes/topics
- Excellent interpretation and communication of their chosen STEM theme(s)/topics(s)

15. Creativity (25 POINTS) *

- · Project demonstrates significant creativity in one or more of the above criteria
- Exhibits distinct experimentation and innovation to enhance creative concepts
- Use of strong metaphor, personal meaning and/or elaborate on complex ideas/skills

16.	Please provide feedback to the student(s).				
	After review, your feedback may be shared with the student(s).				

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