

MWV Youth STEM Expo

Project Scoring Rubric



Invention (Engineering Design Process)

Project Elements	Very Good – Good – Fair	Not Done
Goal		
Design Problem: The problem is stated, either as a title or separately; it is descriptive, creative and relevant with a well-defined outcome.	10 9 8 7 6 5	0
Solution: Proposed solution addresses the problem in a clear well-reasoned manner.	10 9 8 7 6 5	0
Plan		
Procedure: Design/build process attempts to address the problem, performance criteria and constraints. Describes the sequence of the student's approach and reasoning.	10 9 8 7 6 5	0
Materials: Includes list of essential materials, costs, description of hardware, software, etc.	10 9 8 7 6 5	0
Results & Analysis		
Results: Results describe outcomes and show results of prototype tests and chronology of modifications etc.	10 9 8 7 6 5	0
Discussion: Explains what happened. Tells what worked and what didn't, notes how changes affected designs/results, what problems occurred and how they were overcome, suggest changes.	10 9 8 7 6 5	0
Conclusion: Includes a concluding statement that restates the problem and summarizes how the design did or did not address the initial problem.	10 9 8 7 6 5	0
Communication		
Poster Quality: The project is creative, neat, and accurately describes research (goals, plan, & analysis) approx. 800 words or less. <u>If a team project, how did each student contribute?</u>	10 9 8 7 6 5	0
Interview: Student(s) demonstrate a thorough understanding of the project, are engaging, and speak with confidence. If a team project, all students contribute	10 9 8 7 6 5	0
Design Notes and Report: Includes notebook and/or report documenting design process. Prior knowledge and/or background research is cited.	10 9 8 7 6 5	0
Total Score		/100

Comments and overall impression:

Rank 1 2 3
(Circle one)

