

STEM Project Judges Scoring Guide (Grades 3-5)

Project Title: _____

Student(s): _____

Grade Level: _____ Category: _____

School: _____ Teacher/Coordinator: _____

Scientific Investigation Criteria	Engineering Design Criteria	Score
Ask Question <ul style="list-style-type: none"> ❖ Clear measurable/testable question investigated ❖ Logical claim focused on one variable change 	Define Problem <ul style="list-style-type: none"> ❖ Problem to be solved clearly described ❖ Logical claim focused on the best solution 	1 2 3 4
Obtain and Evaluate Information (Research) <ul style="list-style-type: none"> ❖ Information gathered (reliable sources), read, and summarized to support claim 	Obtain and Evaluate Information (Research) <ul style="list-style-type: none"> ❖ Information gathered (reliable sources), read, and summarized to support claim 	1 2 3 4
Plan Investigation Design <ul style="list-style-type: none"> ❖ Plan for procedure logically organized ❖ Variables correctly identified 	Plan for Best Solution Design <ul style="list-style-type: none"> ❖ Plan for prototype logically organized ❖ Limitations/constraints identified 	1 2 3 4
Carry Out Investigation Design Plan <ul style="list-style-type: none"> ❖ Multiple trials conducted (measurable) ❖ Data collected 	Carry Out Solution Design Plan <ul style="list-style-type: none"> ❖ Prototype created for best possible solution ❖ Prototype tested for intended purpose (Multiple trials) ❖ Data collected ❖ Prototype redesigned (if needed) 	1 2 3 4
Use Mathematics and Computational Thinking to Analyze and Interpret Data <ul style="list-style-type: none"> ❖ Data organized in tables and/or graphs ❖ Patterns in data explained 	Use Mathematics and Computational Thinking to Analyze and Interpret Data <ul style="list-style-type: none"> ❖ Data organized in tables and/or graphs ❖ Patterns in data used to redesign a solution 	1 2 3 4
Construct Evidence-Based Explanation (Conclusion) <ul style="list-style-type: none"> ❖ Data and research linked to claim/hypothesis 	Construct Evidence-Based Explanation (Conclusion) <ul style="list-style-type: none"> ❖ Data and research linked to claim 	1 2 3 4
Construct Evidence-Based Explanation (Judge Interview) Discussion Points (not limited to): <ul style="list-style-type: none"> o Relevance of question o Challenges in carrying out plan o Solution to challenges o Quality ideas for further exploration 	Construct Evidence-Based Explanation (Judge Interview) Discussion Points (not limited to): <ul style="list-style-type: none"> o Relevance of problem and solution o Challenges with prototype limitations o Solutions to challenges o Quality ideas presented to improve design 	1 2 3 4
Total Score		/28
Scoring Guide Key 1= Minimal 2= Limited 3= Sufficient 4= Thorough		

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Judge Comments

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Areas of Strength:

Idea(s) for Improvement:

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