

# Science Fair & Design Challenge

## Putnam County Student STEM Symposium

INDIVIDUAL

*Adapted from The Ohio Academy of Science and the Ohio STEM Learning Network*

<b>Name:</b> <<First Name>> <<Last Name>> <b>School:</b> <<School District>> <b>Grade:</b> <<Grade Level>>  <b>Title:</b> <<Project Title>>  <b>STEM Pathway:</b> <<STEM pathway>>	<b>Space:</b> <<Space>>  <b>Judging Team:</b> <<Judging Team>>  <b>Special Award 1:</b> <<Special Award #1>>  <b>Special Award 2:</b> <<Special Award #2>>	<b>TOTAL SCORE</b>  <div style="border: 2px solid red; width: 80px; height: 40px; margin: 0 auto;"></div>
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### JUDGING CRITERIA

JUDGES: Please indicate your evaluation of each subsection by circling the appropriate score rating.	
<b>SECTION #1: PRESENTATION: ORAL, WRITTEN, AND VISUAL COMMUNICATION</b> <i>Tell me about your project? May I see your report? Judges are encouraged to consider student abilities in all three types of communication when assigning points.</i>	Scoring
<u>Written:</u> Well documented background and research notes, raw data and graphs. Written research report includes relevant background, research question/hypothesis showing how it is related to background, experimental design and procedures, data acquisition techniques, data analysis, conclusion and bibliography citing journals, textbooks.	3, 2, 1, 0
<u>Oral:</u> Correct and concise explanation of project, design, and analysis. Effectively communicates the project's purpose and findings. Presentation is well-structured and easy to follow. Engages the audience with clear, confident and professional delivery. Questions are answered thoughtfully and thoroughly.	4, 3, 2, 1, 0
<u>Visual:</u> Logical organization of material, neatly displayed, graphics and legends appropriate to project, easy to read and understand. Photos and graphics cited. Visuals, models or prototypes are professional, relevant and enhance understanding.	3, 2, 1, 0
Comments /Feedback(Required):	Points Earned: ____ /10
<b>SECTION #2: INNOVATION &amp; CREATIVITY</b> <i>Where did you get the idea for your project, experiment design, and analysis? What interests you about this topic? Did you modify any designs that you found and if so, how?</i>	Scoring
Project presents a novel or unique solution or approach. Exhibits originality in problem-solving or idea generation. Incorporates creative design or innovative features	3, 2, 1, 0
Addresses the identified problem in an innovative way. Addresses challenges or constraints in creative ways. Demonstrates out-of-the-box thinking or unique perspectives.	3, 2, 1, 0
Comments /Feedback(Required):	Points Earned: ____ /6

<b>SECTION #3: RESEARCH, PROCESSES AND METHODOLOGY</b> <i>What question are you trying to answer and how did you decide to go about answering it? What did you learn from the data?</i>	Scoring
Demonstrates extensive use of credible and varied sources. Shows connection between research and project outcomes. The project demonstrates thorough investigation and understanding of the topic.	3, 2, 1, 0
Applies appropriate methodologies effectively. Logical sequence of steps is evident and well-documented. The project aligns with scientific experimental design, design thinking framework or entrepreneurial framework.	3, 2, 1, 0
Data collection methods are robust and results are analyzed thoroughly. Sufficient data are collected. Data collected reflect correct use of methodologies. Data is properly analyzed and valid conclusions are reached from data obtained.	3, 2, 1, 0
Iteration and refinement of the project are clearly demonstrated. Challenges and setbacks were addressed.	3, 2, 1, 0
Comments /Feedback(Required):	Points Earned: ____ /12
<b>SECTION #4: IMPACT AND APPLICATION</b> <i>What impact does the project have in real-world situations?</i>	Scoring
Demonstrates practical real-world relevance or application. Provides a compelling rationale for the project.	3, 2, 1, 0
Students clearly articulate the way in which their project could have a meaningful impact on individuals, communities or industries. Solutions are meaningful and feasible.	3, 2, 1, 0
Effectively explains how the project addresses a specific need.	3, 2, 1, 0
Demonstrates and deep understanding of the project and processes, depth of investigation, and/or sophistication of the project.	3, 2, 1, 0
Comments /Feedback(Required):	Points Earned: ____ /12

<b>Total Points Earned (completed by judges)</b>	<b>Overall Rank (CIRCLE)</b>
Section 1: ____ / 10 Section 2: ____ / 6 Section 3: ____ / 12 Section 4: ____ / 12 Total: ____ / 40	Superior (36 - 40) Excellent (24-35) Good (12-23) Satisfactory (0-11)

JUDGE'S Printed Name \_\_\_\_\_ Signature\_\_\_\_\_

JUDGE'S Printed Name \_\_\_\_\_ Signature\_\_\_\_\_