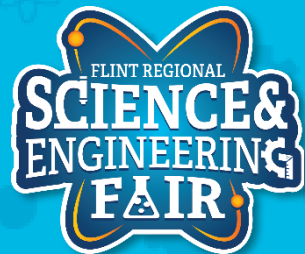


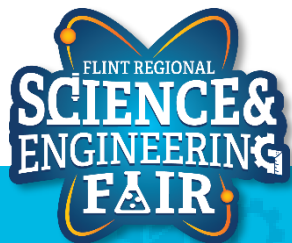
Preliminary Judging Rubric

Adopted February 2024



Judging Criteria – 2024 Preliminary

- **Introduction and Background 10%**
 - Provides an intro that begins with general information leading up to the area of their project.
 - Student understands how their research is relevant in their area of study or the world.
- **Problem Statement / Goals / Hypothesis 15%**
 - Student clearly explained the goals or purpose of the research.
 - Explains how the goal addresses a problem or gap in understanding.
- **Methods / Materials 15%**
 - Explains method of scientific work.
 - A clear plan was shown and variables were identified.
 - If controls were necessary, appropriate controls were selected.
 - Sample size was appropriate.
 - If appropriate, prototype solutions were developed.
 - If using a survey, the questions adequately addressed the problem.
- **Results / Analysis / Discussion 15%**
 - Student clearly and adequately explained the results of their work and understands the relationship of the results with respect to the goals.
 - Sufficient data was presented to support the conclusion. If applicable, statistical analysis was used properly.
 - Student was able to explain method of analysis, including statistical analysis.
 - Student interpreted the data in a way that is consistent with the original hypothesis / problem statement.
 - If applicable: Solution provides improvement or alternative to existing product or designs.
 - If applicable: Solution was tested for performance.

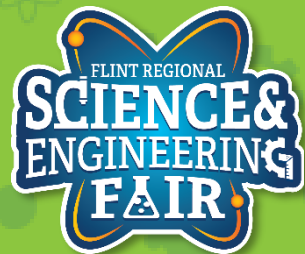


Judging Criteria – 2024 Preliminary

- **Conclusion / Application / Future Research 15%**
 - Sound conclusions were made based on the data / schematics presented.
 - Project was carried out to completion within the scope of the original intent.
 - The student provided possible applications of their work.
 - Demonstrated a clear direction for further study in the area of research.
- **Novelty / Creativity 15%**
 - A creative project demonstrates imagination and inventiveness.
 - Such projects often offer different perspectives that open up new possibilities or new alternatives.
 - The project demonstrates considerable creativity in one or more of the following criteria: research question, design and methods, or execution (prototype development, data collection, analysis or interpretation).
- **Quality of Materials 15%**
 - The display slides demonstrate an organized scientific approach.
 - Slides clearly showed the data that was presented in identifiable tables and or figures.
 - Slides clearly presented the specific goals or specific purpose of research study.
 - Text was clearly visible with readable formatting.
 - Information was organized in a way that enhanced the presentation of the student's research.

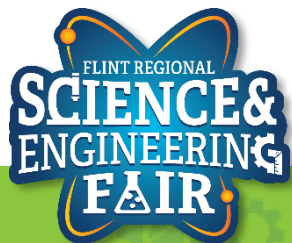
Finalist Judging Rubric

Adopted February 2024



Judging Criteria – 2024 Finalist

- **Introduction and Background 10%**
 - Provides an intro that begins with general information leading up to the area of their project.
 - Student understands how their research is relevant in their area of study or the world.
- **Problem Statement / Goals / Hypothesis 10%**
 - Student clearly explained the goals or purpose of the research.
 - Explains how the goal addresses a problem or gap in understanding.
- **Methods / Materials 10%**
 - Explains method of scientific work.
 - A clear plan was shown and variables were identified.
 - If controls were necessary, appropriate controls were selected.
 - Sample size was appropriate.
 - If appropriate, prototype solutions were developed.
 - If using a survey, the questions adequately addressed the problem.
- **Results / Analysis / Discussion 15%**
 - Student clearly and adequately explained the results of their work and understands the relationship of the results with respect to the goals.
 - Sufficient data was presented to support the conclusion. If applicable, statistical analysis was used properly.
 - Student was able to explain method of analysis, including statistical analysis.
 - Student interpreted the data in a way that is consistent with the original hypothesis / problem statement.
 - If applicable: Solution provides improvement or alternative to existing product or designs.
 - If applicable: Solution was tested for performance.

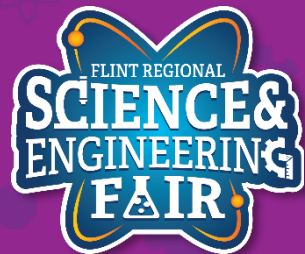


Judging Criteria – 2024 Finalist

- **Conclusion / Application / Future Research 10%**
 - Sound conclusions were made based on the data / schematics presented.
 - Project was carried out to completion within the scope of the original intent.
 - The student provided possible applications of their work.
 - Demonstrated a clear direction for further study in the area of research.
- **Novelty / Creativity 10%**
 - A creative project demonstrates imagination and inventiveness.
 - Such projects often offer different perspectives that open up new possibilities or new alternatives.
 - The project demonstrates considerable creativity in one or more of the following criteria: research question, design and methods, or execution (prototype development, data collection, analysis or interpretation)
- **Quality of Presentation 10%**
 - Student presented the material in a clear and organized manner.
 - Student demonstrate enthusiasm in the presentation of their research.
- **Student Understanding 15%**
 - Student demonstrated understanding of the project.
 - Student clearly explains all aspects of the project.
- **Display Organization 10%**
 - The display demonstrates an organized scientific approach.
 - Display clearly showed the data that was presented in identifiable tables and or figures.
 - Display clearly presented the specific goals or specific purpose of research study.
 - Text was clearly visible with readable formatting.
 - Information was organized in a way that enhanced the presentation of the student's research.

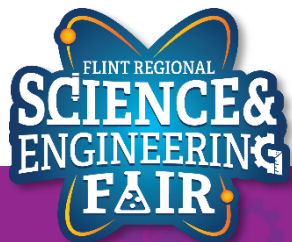
Elementary Judging Rubric

Adopted February 2024



Judging Criteria – 2024 Elementary

- **Problem Statement / Goals / Hypothesis 15%**
 - Student clearly explained the goals or purpose of the research.
 - Explains how the goal addresses a problem or gap in understanding.
- **Methods / Materials 15%**
 - Explains method of scientific work.
 - A clear plan was shown and variables were identified.
 - If controls were necessary, appropriate controls were selected.
 - Sample size was appropriate.
 - If appropriate, prototype solutions were developed.
 - If using a survey, the questions adequately addressed the problem.
- **Results / Analysis / Discussion 15%**
 - Student clearly and adequately explained the results of their work and understands the relationship of the results with respect to the goals.
 - Sufficient data was presented to support the conclusion. If applicable, statistical analysis was used properly.
 - Student was able to explain method of analysis, including statistical analysis.
 - Student interpreted the data in a way that is consistent with the original hypothesis / problem statement.
 - If applicable: Solution provides improvement or alternative to existing product or designs.
 - If applicable: Solution was tested for performance.



Judging Criteria – 2024 Elementary

- **Conclusion / Application 15%**
 - Sound conclusions were made based on the data / schematics presented.
 - Project was carried out to completion within the scope of the original intent.
- **Novelty / Creativity 10%**
 - A creative project demonstrates imagination and inventiveness.
 - Such projects often offer different perspectives that open up new possibilities or new alternatives.
 - The project demonstrates considerable creativity in one or more of the following criteria: research question, design and methods, or execution (prototype development, data collection, analysis or interpretation)
- **Quality of Presentation and Display 15%**
 - Student presented the material in a clear and organized manner.
 - Student demonstrate enthusiasm in the presentation of their research.
 - The display demonstrates an organized scientific approach.
 - Display clearly showed the data that was presented in identifiable tables and or figures.
 - Text was clearly visible with readable formatting.
- **Student Understanding 15%**
 - Student demonstrated understanding of the project.
 - Student clearly explains all aspects of the project.

