NE Regional Science Fair Elementary Division

Project # ______ Presenter’s Name: ______________________

Project Title: ________________________________________

Experiment (page 1), Demonstration (page 2), Model (page 3), OR Engineering (page 4)

**Experiment/Rubric** - 20 points total are possible.

**Scientific Method** (0-2 points per line)

- Has a question they are investigating (Question) ______
- Has an idea of what answer to question will be (Hypothesis) ______
- Has a step by step plan followed when investigating (Procedure) ______
- Has collected data and used graph/table/chart to show results (Data/Conclusion) ______

Score (highest score is 8) ______

**Presentation** (0-1 points per line)

- Easy to Read Board Overall ______
- Easy to Read Data ______
- Easy to Read Graph/Table/Chart ______
- Skilled Presenter ______

Score (highest score is 4) ______

**Investigation** (0-1 points per line)

- Explains results so you can understand. ______
- Gives reasons why results were expected. ______
- States what they would do differently if project repeated. ______
- Do they know what they would research next to extend project? ______

Score (highest score is 4) ______

**Creativity** (0-1 points per line)

- Original idea (taken from source=0, done before=0) ______
- Did they do most of data collection by themselves? ______
- Did they do their own graph/table/chart? ______
- Did they do research into their topic? ______

Score (highest score is 4) ______

**Total:** ______
NE Regional Science Fair Elementary Division

Project # ______  Presenter’s Name: ___________________________

Project Title: ______________________________________________

Experiment (page 1), Demonstration (page 2), Model (page 3), OR Engineering (page 4)

Demonstration Rubric - 20 points total are possible.

Organization (0-1 points per line)

- All materials are present
- All materials are easily accessible
- Demonstration runs smoothly
- Demonstration is completed in a timely manner

Score (highest score is 4) ______

Presentation Skills (0-1 points per line)

- Good eye contact
- Voice projection is maintained throughout the presentation
- Detailed explanation of demonstration
- Detailed explanation of topic

Score (highest score is 4) ______

Science Content (0-4 points)

- Student show a complete understanding of the topic

Score (highest score is 4) ______

Professionalism (0-1 points per line)

- Respectful at all times
- Shows extensive practice
- Shows extensive preparation
- No safety issues during the presentation

Score (highest score is 4) ______

Creativity (0-1 points per line)

- Demonstration was interesting
- Demonstration captures the excitement of the audience
- Demonstration shows creativity
- Demonstration was unique

Score (highest score is 4) ______

Total: ______
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Experiment (page 1), Demonstration (page 2), Model (page 3), OR Engineering (page 4)

Model Rubric - 20 points total are possible.

Explanation (0-2 points per line)

Student can explain the overall model. ______
Student can explain all the parts of the model. ______
Model is explained in a way that allows others to understand the purpose of the model. ______

Score (highest score is 6) ______

Distinguishing Models and Objects (0-2 points per line)

Student can distinguish between the model and what the model represents._____
Student can identify the limitations of the model. ______
Student explains how a model can be an educational tool. ______

Score (highest score is 6) ______

Construction (0-1 point per line)

The model construction is simple and accurate. It represents the object, tool or process. ______
The student referenced diagrams, drawings, and/or observations to construct the model. ______
The student give credit to those that assisted with the construction or provided advice. ______

Score (highest score is 3) ______

Creativity (0-1 point per line)

The model is creative. ______
The model has a unique perspective. ______

Score (highest score is 2) ______

Presentation Skills (0-1 points per line)

Good eye contact ______
Voice projection is maintained throughout the presentation ______
The student offers to answer questions. ______

Score (highest score is 3) ______

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Project Title: __________________________________________________

Experiment (page 1), Demonstration (page 2), Model (page 3), OR Engineering (page 4)

**Engineering Rubric** - 20 points total are possible.

Research Problem (0-2 points per line)
Description of a practical need or issue to be addressed
Definition of criteria for proposed solution
Explanation of constraints

Score (highest score is 6) ______

**Design and Methodology** (0-1 points per line)

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

Score (highest score is 3) ______

**Execution: Data Collection, Analysis & Interpretation** (0-2 points per line)

Prototype demonstrates intended design
Prototype has been tested in multiple conditions/trials
Prototype demonstrates engineering skill and completeness

Score (highest score is 6) ______

**Creativity** (0-1 points per line)
Project demonstrates creativity/originality/innovativeness
in one or more of the above criteria

Score (highest score is 3) ______

**Presentation** (0-1 points per line)
Easy to Read Graph/Table/Chart
Skilled Presenter

Score (highest score is 2) ______

**Total:**