MINNESOTA 4-H SCIENCE OF AGRICULTURE

CHALLENGE EVALUATION

Team Name: ___________________________________________ County: ___________________________
Title of Presentation: _____________________________

<table>
<thead>
<tr>
<th>Tabulators Section</th>
<th>Comments – please consider:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start time _______</td>
<td>• Strengths/accomplishments</td>
</tr>
<tr>
<td>End time _______</td>
<td>• Skills learned</td>
</tr>
<tr>
<td>Time over/under</td>
<td>• Areas to work on</td>
</tr>
<tr>
<td>Point Deductions</td>
<td>• Possible new challenges</td>
</tr>
<tr>
<td>[-5 points for under 15 minutes: -2 points for each minute over 20 minutes]</td>
<td>• Questions to think about</td>
</tr>
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Research: ______/20 possible points
- Defining Problem – Clear definition of the problem being studied.
- Connect with ag-related business mentor – Evidence of partnership with one or more individuals in business related issue.
- Sources of Information – Types and number of quality sources cited, including professionals in the field.
- Problem Analysis - Depth to which the problem was studied and analyzed by the team.
- Reviewed Existing Solutions – Extent to which existing solutions were analyzed by the team, including an effort to verify the originality of the team’s solution.
- Science and Engineering Practices have been included into the learning process.

Strategy and Innovation: ______/20 possible points
- Team Solution – Clear explanation of the proposed solution.
- Design Process – Degree to which team developed a design plan, produced and tested models, selected among alternatives and refined ideas.
- Innovation – Degree to which team’s solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new way.
- Testing – Degree to which the team tested their idea/innovation before the Challenge Event with others who might benefit from the team’s efforts.
- Implementation – Consideration of factors for implementation (cost, ease of manufacturing, etc.)
- Science and Engineering practices have been included into the learning process.

Group Presentation: ______/12 possible points
- Advocate in the Community – Degree to which the team share their project before the Challenge Event with others who might benefit from the team’s efforts.
- Creativity – Imagination used to develop and deliver the presentation.
- Presentation Effectiveness – Message delivery and organization of the presentation

Team Work: ______/12 possible points
- Effectiveness – Problem solving and decision making processes help team achieve their goals.
- Efficiency – Resources used relative to what the team accomplishes (time management, distribution of roles and responsibilities).
- Kids Do the Work – Appropriate balance between team responsibility and coach guidance.

Motivation: ______/12 possible points
- Discovery/Issue – Balanced emphasis on all three aspects (Science of Agriculture Response, Core Values, and Presentation).
- Integration – Application of Science of Agriculture values and skills outside of Science of Agriculture, to include citizenship.
- Creativity – Imagination and curiosity drive project.

Professionalism: ______/12 possible points
- Inclusion – Consideration and appreciation for the contributions (ideas and skills) of all team members, with balanced involvement.
- Respect – Team members act and speak with integrity so others feel valued especially when solving problems or resolving conflicts.
- Cooperation – Team competes in the spirit of friendly competition and cooperates with others.

Judges Questions: ______/12 possible points
- Thoroughness – Provided relevant information and ideas that relate to their research and findings while providing specific examples.

Final Score Tabulation: ______/100 possible points
- Research – ______/20 possible points
- Strategy & Innovation – ______/20 possible points
- Group Presentation – ______/12 possible points
- Team Work – ______/12 possible points
- Motivation – ______/12 possible points
- Professionalism – ______/12 possible points
- Judges Questions – ______/12 possible points

Final Comments: _____________________________

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