

JUDGING GUIDE: RUBRICS/SCORING

Rubric Example: High School

HIGH SCHOOL SCORING SHEET: POSTER & NOTEBOOK

School:

Team Name:

Team Number:

Please assign teams a score between 1 and 100 for each of the following five criteria:

Ask: Research the Problem

Score:

1

Students asked no questions at the outset of their design process and did not conduct research.

50

Students presented questions about and conducted research on car materials.

100

Students conducted research about car materials and content to address criteria and constraints in their design. Students used research to address questions in their documentation.

Imagine/Plan: Develop Possible Solutions

Score:

1

Students selected plan for prototype design.

50

Students selected design and listed components.

100

Students selected design and listed components. Students explored wheel size, gear ratio, friction, etc. The final design was collaborative.

Create: Build a Prototype

Score:

1

Students built a prototype.

50

Students built a prototype with pictures included.

100

Students built a prototype, with detailed notes about adjustments made.

Test, Evaluate, and Improve

Score:

1

Students tested prototype, listed results, but did not redesign.

50

Students tested prototype, listed results, developed a second design and noted the process.

100

Students tested prototype. Students identified independent and dependent variables to manipulate and made multiple designs, clearly communicated their reasoning and discussed trade-offs.

Final Design: Innovation

Score:

1

Vehicle uses only materials provided in kit and looks like it was built from instructions.

50

Vehicle is somewhat innovative in nature, but primarily relies on materials provided in team kit. Vehicle might include lights.

100

Student creativity and innovation is clearly present in vehicle material testing or selection and vehicle consists of recycled materials. Vehicle includes lights or other innovation that goes above and beyond the requirements for the competition.

Judges Choice Nominee?

Yes

No

Notes:

Judge Name:

Rubric Example: High School

HIGH SCHOOL SCORING SHEET: INTERVIEW

<u>School:</u>	<u>Team Name:</u>	<u>Team Number:</u>
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Please assign teams a score between 1 and 100 for each of the following five criteria:

Content	Score:		
1	50	100	
Students demonstrated little knowledge of science and engineering content.	Students demonstrated knowledge of science and engineering content.	Students mastered science and engineering content as they relate to renewable energy.	
Clarity	Score:		
1	50	100	
Students answered the questions.	Students answered questions and supported their claims with evidence and reasoning.	Students answered questions with comprehensive support and communicated ideas with real world application.	
Teamwork	Score:		
1	50	100	
1 student answered all questions.	More than 1 student answered questions.	Many members of the team answered questions and worked collaboratively.	
Research/Preparedness	Score:		
1	50	100	
Students shared their approach to the challenge, but with little detail.	Students demonstrated familiarity with components and asked initial questions before they began the design process.	Students demonstrated familiarity with components, asked questions, and mentioned multiple sources to support their decisions throughout the process.	

Judges Choice Nominee? Yes No

Notes:

Judge Name: