

Design Award Rubric Page 2 — Team Interview with Judges

Rubrics are strictly confidential; they are not shared beyond the Judges/Judge Advisor and shall be destroyed at the end of the event.

Directions: Write the points in each row for the criterion that best describes the performance of the Engineering Notebook on each topic. Total the points.

Team #: _____

Program level: ☐ Elementary ☐ Middle ☐ HS or VEX U

Judges: _____

Topic	Criteria			Points
	Expert (4-5 points)	Proficient (2-3 points)	Emerging (0-1 points)	
Design process and Engineering Notebook	Students <u>clearly explain all aspects of the design process</u> and how they recorded their use of the design process in the Notebook.	Students can explain <u>most aspects of the design process</u> and how they recorded their use of the process.	Students can explain <u>only limited aspects of the design process</u> and how they recorded their use of the process.	
Game strategies and robot designs	Students can describe <u>three or more game strategies</u> and robot designs that were considered; students can fully explain how and why the current game strategy and robot design were chosen.	Students can describe <u>two game strategies</u> and robot designs that were considered; students can explain how and why the current game strategy or robot design were chosen.	Students can describe <u>only their current game strategy</u> and design, or they cannot explain how and why the current game strategy or robot design were chosen.	
Project and team management	Students can explain <u>how team progress was tracked against an overall project timeline</u> , and how students were assigned to tasks based on their skills and availability; students can explain management of material resources.	Students can explain <u>how team progress was monitored</u> , or how students were assigned to tasks, or management of material resources.	Students <u>cannot explain how team progress was monitored</u> or how students were assigned to tasks or how material resources were managed.	
Teamwork and communication	Students can explain how <u>multiple team members contributed</u> to the robot design and game strategy. All students answer questions independently.	Students can explain how <u>most team members contributed</u> to the robot design and game strategy. Students support each other as needed to answer questions.	Only <u>one team member answered</u> questions or contributed to the robot design process.	
Respect and courtesy	Students answer respectfully and courteously. Students <u>make sure each team member contributes</u> . Students wait to speak until others have finished.	Students answer respectfully and courteously. <u>Some students attempt to contribute</u> but are interrupted by other students.	Students <u>do not answer respectfully</u> and courteously. Students interrupt each other or the Judges.	
Describe a few of the best features of the team interview:			Total points for Team Interview:	
			Total points for Engineering Notebook:	
			Total points for Design Award Rubric:	



STEM Research Project and Video Presentation



Teams will share the results of their STEM Research Project with VEX IQ Challenge event Judges in a creative and effective four (4) minute video presentation. Following the video there must be a 15 second credits section which includes the name of the entrant or entrants, the team number, the name of the video.

Team #: _____
 Team Name: _____
 Program level: ☐ Elementary ☐ Middle
 Judges: _____

For more details review the STEM Research Project and VEX IQ Challenge Awards Appendix on the [VEX IQ Challenge web page](#).

Directions: Mark the descriptor that best describes the team's performance for each criterion.

Criteria	Expert (3 points)	Proficient (2 points)	Emerging (1 points)	Points
Identifies a challenge topic of interest that relates to the STEM theme for the season	Challenge topic clearly identified, with a strong connection to the STEM theme for the season	Challenge topic identified, with some connection to the STEM theme for the season	Topic not identified and/or limited connection to the STEM theme for the season	
Completes research and collect evidence using reliable sources	Provides evidence of thorough research using 3-5 reliable and credible sources	Provides evidence of research using 1-3 reliable sources	Provides evidence from no reliable sources	
Demonstrates a well-organized and documented process to study/explain research findings	Demonstrates highly organized and well documented process to study and explain the research data	Demonstrates some organization and documentation of the project	Demonstrates little to no documentation of the project	
Describes how the research findings were applied to develop and test the solution	Demonstrates an in-depth understanding of the application of the research to develop and test the solution	Demonstrates some understanding of the application of the research to develop and test the solution	Demonstrates little to no application of research to develop and test the solution	
Shares the solution in an effective and creative high-quality video	Video provides clear, effective, and creative explanation of how solution was developed and how it works	Video provides adequate explanation of how the solution was developed and how it works	Video lacks detail needed to understand the team's solution	
Students demonstrate an understanding of the research process	All students demonstrate mastery of the research process	Most students demonstrate some understanding of the research process	Students demonstrate little or no understanding of the research process	
Students demonstrate teamwork and effective communication skills in a student produced video	All students demonstrate high levels of cooperation, courtesy, enthusiasm, confidence, accuracy, and clarity	Students demonstrate some cooperation, courtesy, enthusiasm, confidence, accuracy and clarity	Students demonstrate limited cooperation, courtesy, enthusiasm, confidence, accuracy, and clarity	
Describe the best features of this video presentation: <i>(Continue on back of sheet)</i> _____ _____ _____				Total Points
Add a 3-point bonus for staying within the 4-minute allotted time and including up to 15 seconds of appropriate credits.				

NOTE: This is a confidential judging document. It should not leave the Judge's room after a competition. Return to the Judge Advisor for disposal.