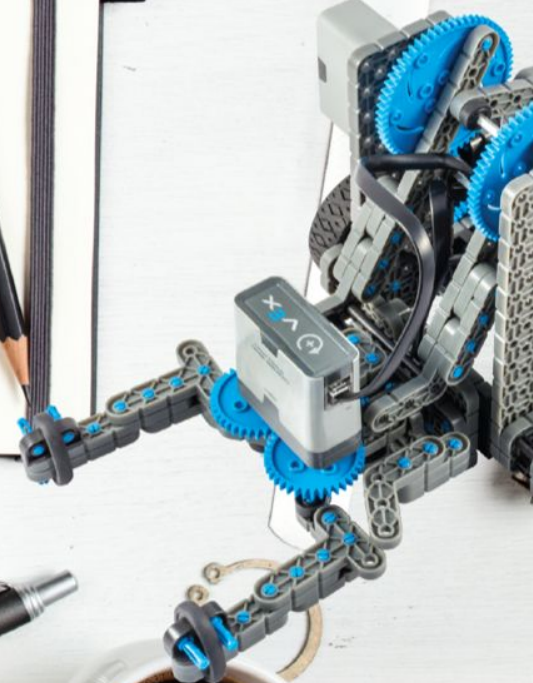
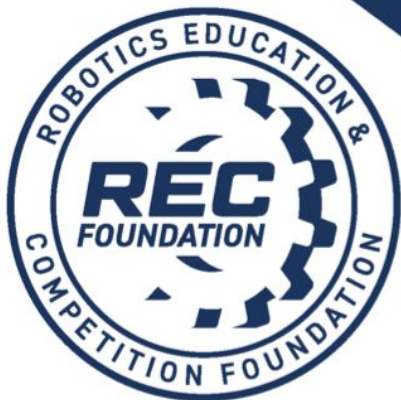


Judging and Design Notebooks

Cheryl Burley-Rausch
and Carol Kujawa

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Carol Kujawa

WELCOME TO JUDGING

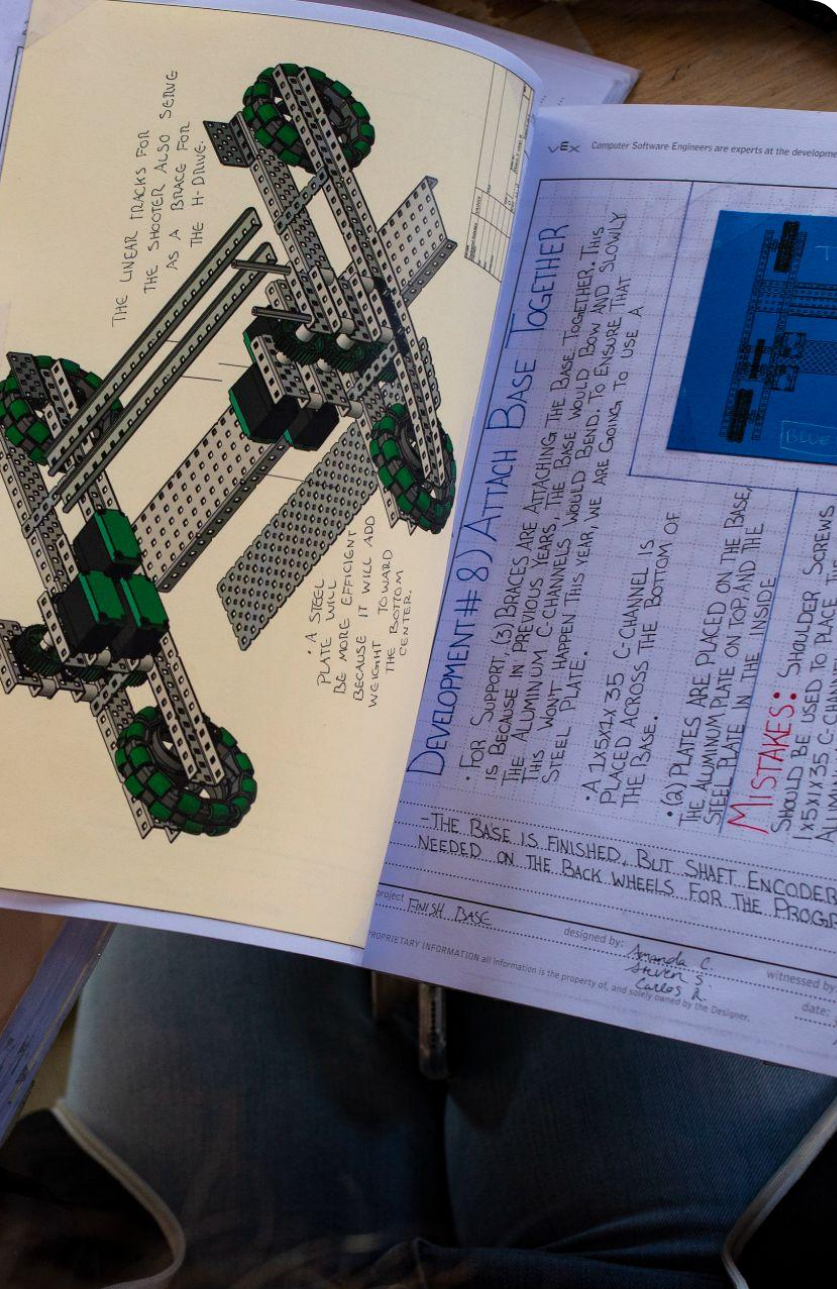
- Importance of Judging
- Introduction and Refresher to prepare for Judging
- Judging Options 2021/2022 Season
- Feedback
- Digital Engineering Notebooks



Benefits of Judging for Students

- Develop soft skills
- Present their knowledge
- Gain experience preparing an Engineering Notebook
- Work towards earning judged awards





Introduction for new EP's and Refresher for current EPs and Coaches

- Use Judging Section of EP Guide - EP Resources
- Coaches use Rubrics, Award descriptions, and Judge Guide to prepare for events
- Remote Judging - Currently in Addendum
- Thank all volunteers involved with Judging





Judging for 2021/2022 Season

- In-person Events - Remote judging or in-person judging, is decided by the EP.
- LRT Remote Events - Remote judging is allowed.
- In-person Skills Only Events - May include judging, but no judged awards will qualify to a championship event.



Feedback

What type of feedback can I give to coaches?

Completed rubrics must be discarded by the Judge Advisor. They cannot be given to anyone.

- Review blank Interview Rubric
- Review blank Engineering Notebook Rubric
- Read Award Descriptions and Judge Guide
- Teams should plan and practice for interview



DIGITAL ENGINEERING NOTEBOOK



Judge Guide Addendum

This addendum is for Event Partners, Judge Advisors, Judges, Coaches, and Teams.

NOTE: This addendum was updated in March 2021 to address Live Remote VEX Worlds 2021.

The process for remote judging at Live Remote VEX Worlds 2021 is outlined in the following documents (where the information contained in this addendum is inconsistent, the following documents will take precedence):

- **Live Remote Skills VEX Worlds:**
<https://www.roboticseducation.org/documents/2021/03/vex-worlds-live-remote-skills-remote-judging.pdf/>
- **Live Remote Tournament VEX Worlds:**
<https://www.roboticseducation.org/documents/2021/03/vex-worlds-live-remote-tournament-remote-judging.pdf/>

The Judge Guide Addendum provides the approved variances for judging at REC Foundation-sanctioned events during the 2020-2021 competition season. The variances described in this addendum will only apply during this season and may be updated as needed by the REC Foundation's Competition Judging Committee. Any questions or clarifications on this Addendum or the [Judge Guide](#) should be submitted to the Official [Judging Q&A](#) at RobotEvents.com.

In response to the COVID-19 pandemic, the REC Foundation has developed approved judging models to support Event Partners in providing alternative judging formats that can be used under different circumstances. The approved judging models include:

- **Standard Event Judging:** Used in circumstances where an REC Foundation-



JUDGE GUIDE ADDENDUM



Engineering Notebook Rubric

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

Team #:
Program level: ☐ Elementary ☐ Middle ☐ High or VEX U
Judges:

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.

Topic	Criteria			Points
	Expert (4-5 points)	Proficient (3-4 points)	Emerging (2-3 points)	
Identify game and robot design challenges and goals	Identifies the game challenge or robot design challenge in detail at the start of each design cycle with words and pictures. States the goals for accomplishing the challenge.	Identifies the challenge at the start of each design cycle. Lacking details, words, pictures, or goals.	Does not identify the challenge at the start of each design cycle.	
Brainstorm and diagram or prototype solutions	Lists three or more possible solutions to the challenge with labeled diagrams. Citations provided for ideas that came from outside sources such as online videos or other teams.	Lists one or two possible solutions to the challenge. No citations provided for ideas that came from outside sources.	Does not list any solutions to the challenge.	
Select the best solution and plan	Explains why the solution was selected through testing and/or a decision matrix. Fully describes the plan to implement the solution.	Explains why the solution was selected. Mentions the plan.	Does not explain why the solution was selected or does not mention the plan.	
Build and program the solution	Records the steps to build and program the solution. Includes enough detail that the reader could recreate the solution following the steps in the Notebook.	Records the key steps to build and program the solution. Lacks sufficient detail to recreate the solution.	Does not record the key steps to build and program the solution.	
Test solution	Records all the steps to test the solution, including test results.	Records the key steps to test the solution.	Does not record the steps to test the solution.	
Repeat design process	Shows that the design process is repeated multiple times to improve performance on an individual design goal or overall robot or game performance.	Shows that the design process is repeated for individual design goals or overall robot or game performance.	Does not show that the design process is repeated.	
Usefulness and repeatability	Records the entire design and development process in such great clarity and detail that the reader could recreate the project's history and build the current robot from the notebook.	Records the design and development process completely but lacks sufficient detail to fully recreate the entire project or robot.	Does not record the design and development process or lacks sufficient detail to understand the design process.	
Record of team	Provides a complete record of team and project assignments. A bound notebook should be in ink. Notes from team meetings including goals, ...	Records most of the information listed at the left. Not written in ink.	Does not record most of the information listed at the left. Not	

Use the Judge Guide and DEN Rubric

Rich Miller - Session on Creating a Digital Engineering Notebook



THANK YOU



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