**Design Award Rubric**

For Design Award details, see the Awards Appendix at www.roboticseducation.org/vex-iq-challenge/viq-current-game/

Team Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Team Number: \_\_\_\_\_\_\_\_ Grade: Elementary Middle

Circle the box in each row that best describes the team’s accomplishments of the identified criteria.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria**  | **Novice (1)**  | **Emerging (2)**  | **Proficient (3)**  | **Expert (4)**  |
| Engineering Notebook is clear, organized, & complete, including:* Team Profile
* Projects and team assignments
* Entries from team meetings with goals, decisions, and accomplishments
* Record name or initials & dates
 | Engineering Notebook includes minimal clarity, organization, and/or listed content | Engineering Notebook is somewhat clear and organized and includes some of the listed content | Engineering Notebook is clear and organized and includes most of the listed content | Engineering Notebook is very clear,well organized, and complete, including all of the listed content |
| Engineering Notebook documents the Design Process steps:* Identify the challenge(s)
* Brainstorm solutions
* Select best approach and plan
* Build, program, and test
* Repeat process steps, if needed
 | Engineering Notebook documents minimalDesign Process steps | Engineering Notebook documents some Design Process steps | Engineering Notebook documents most Design Process steps | Engineering Notebook thoroughly documents all Design Process steps |
| Team understands and explains how they developed an effective game strategy and robot design | Team explains strategy and design with minimal understanding | Team explains strategy and design with some understanding | Team explains strategy and design with good understanding | Team explains strategy & design with enhanced depth of understanding |
| Team demonstrates effective management of skills, time, and material resources, e.g., develops goals and timelines, plans schedule and tasks, assigns team roles | Team demonstrates minimal management of resources | Team demonstrates some management of resources | Team demonstrates good management of resources | Team demonstrates effective management of all resources |
| Team understands and explains how they worked together to design, build, and program their robot. | Team explains their cooperative robot design process, with minimal understanding | Team explains their cooperative robot design process, with some understanding | Team explains their cooperative robot design process, with good understanding | Team explains their cooperative robot design process, with enhanced depth of understanding |

Describe the best features of this team’s Engineering Notebook and discussion with the judges:

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