AERIAL DRONE COMPETITION

Competition Logbook Rubric

Team # _____ **Grade Level ☐ MS | ☐ HS** **Judge Name:** _____

Directions: Determine the point value that best characterizes the content of the Competition Logbook for that criterion. Write that value in the column to the right. This rubric is to be used for all Competition Logbooks regardless of format (physical or digital).

CRITERIA	PROFICIENCY LEVEL			
GAME ANALYSIS DESIGN PROCESS	**EXPERT** (4-5 POINTS)	**PROFICIENT** (2-3 POINTS)	**EMERGING** (0-1 POINTS)	POINTS
IDENTIFY THE PROBLEM	Identifies game and programming challenges in detail at the start of each design process cycle with words and pictures. States the goals for accomplishing the challenge.	Identifies a challenge at the start of each design cycle. Lacking details in words, pictures, or goals.	Does not identify a challenge at the start of each design cycle.	
BRAINSTORM, 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. Citations provided for ideas that came from outside sources.	Does not list any solutions to the challenge. No citations provided for ideas from outside sources.	
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 any plan or why the solution or plan was selected.	
CREATE THE SOLUTION	Records the steps used to create the solution. Includes enough detail that the reader can follow the logic as well as recreate the solution from the documentation.	Records the key steps to build and program the solution. Lacks sufficient detail for the reader to follow the design process.	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 steps to test the solution.	
REPEAT DESIGN PROCESS	Shows that the design process is repeated multiple times to improve performance.	Design process is not often repeated to improve performance.	Does not show that the design process is repeated.	
DRONE DATA AND ANALYSIS	Has complete documentation from three or more drone data and analysis reporting. Gathered data and analysis is relevant to competition.	Has complete documentation from one or two drone data and analysis reporting. Gathered data and analysis is somewhat relevant to competition.	Does not have any drone data or analysis or data is not relevant to competition	
SAFETY PLAN	Includes five or more aspects for the team's safety plan.	Documents three or four aspects of the team's safety plans	Documents two or fewer aspects for the team's safety plans	
DRONE FLIGHT LOG	Has detailed date and flight times in the logbook, which includes location of flights, name of pilots and/or flight team. Team documents repairs and crashes.	Has some flight time recorded, but details are missing.	Does not have any flight times recorded	
TEAM AND LEADERSHIP	Provides a complete record of team and project assignments; team meeting notes including goals, decisions, and programming accomplishments; Design cycles are easily identified. Resource constraints including time and materials are noted throughout.	Records most of the information listed at the left. The level of detail is inconsistent, or some aspects are missing.	Does not record most of the information listed at the left. Not organized.	
LOGBOOK FORMAT	Five (5) points if the notebook has evidence that documentation was done throughout the season. This can take the form of dated entries with the names of contributing students included. The notebook should also include a table of contents with entries organized for future reference		ZERO POINTS (DOES NOT MEET CRITERIA)	
NOTES:				**TOTAL POINTS**

All Judging materials are strictly confidential. They are not shared beyond the Judges/Judge Advisor and shall be destroyed at the end of the event.