O-Wing Glider Group Discussion Board

Creating Model:

Design, create, and test generalized function models for different aspects of a O - Wing Glider.

CCSS-Math:

- F-BF1 Build a function that models a relationship between two quantities.
- MP1 Making sense of problems and persevere in solving them.
- MP4 Modeling with mathematics.
- MP5 Use appropriate tools strategically
- MP7 Looking for and making use of structures.

Task

Word Document template with the following components.

1. **Investigators Name**
2. **Variables Defined** Dependent - flight length and Independent - testable variable
3. **Describe the procedures you used:** Explain how you used data to test your mathematical model
4. **List the data you collected:** Using video, tables, graphs, and equations compare data from at least three trials with your model.
5. **Analysis of data:** Describe analysis of data.
6. **Explain your conclusion:** Explain how you improved your engineering design and mathematical model through data collection, and testing procedures.
7. **Recommendation:** Explain how your individual testing of the iterative process will help design the group glider. Include and document ideas to incorporate all individual investigations to design the group glider.

Assignment Rubric Details ×

Modeling Lab Report

You've already rated students with this rubric. Any major changes could affect their assessment results.

Criteria	Ratings					Pts
Each report component is included and reported appropriately. Modeling report is complete and appropriately communicates all parts of the model and modeling process.	6 pts Excellent	4 pts Developed	2 pts Proficient	1 pts Undeveloped	0 pts Unacceptable	6 pts
Model Quality Quality, accuracy, and completeness of the model testing, analyzing, and reporting of the iterative process.	6 pts Excellent	4 pts Developed	2 pts Proficient	1 pts Unacceptable	0 pts Undeveloped	6 pts
Format and Creativity Logic and effectiveness of visual presentation and creative elements used to convey meaning.	6 pts Excellent	4 pts Developed	2 pts Profecient	0 pts Unacceptable		6 pts
Engineering of Group Glider Design Evidence using engineering design process and problem solving practices to incorporate individual iterative process into the group glider design improvement.	7 pts Excellent	5 pts Developed	3 pts Proficient	1 pts Unacceptable	0 pts Undeveloped	7 pts
						Total Points: 25