

Model Presentation

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Presenting Model (Video of Group Glider)

Create and test a modified 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.

Video

- Three flights
- Show the length of each flight
- Demonstrate proper launch of the glider (1.5 m high and forearm vertical to 45*)

Documentation

Also submit a Word document [template](#) with the following information:

1. Group members names
2. Table with the flight length of the 3 flights on the video
3. Average length of the three flights
4. Picture of the glider
5. Caption under the picture with measurements, calculations, and explanations that the glider is within the required specifications.
6. Explain how models and analysis from the individual investigations lead to at least two important features of your glider.
7. Explain how the engineering design process you used is connected to mathematics, real-world flying, and careers. Read and use idea for this article to make the connections between mathematics, real-world problems, and careers. [The Davis Wing and The Problem of Airfoil Design.pdf](#)

Points 25

Submitting a file upload

Modeling Lab Presentation (1)						
You've already rated students with this rubric. Any major changes could affect their assessment results.						
Criteria	Ratings					Pts
Video Video includes all required components and reveals needed information about the performance of the glider.	8 pts Excellent	6 pts Developed	4 pts Proficient	2 pts Unacceptable	0 pts Undeveloped	8 pts
Documentation Use correct oral and written language both English and Mathematics. All required components are included.	8 pts Excellent	6 pts Developed	4 pts Proficient	0 pts Unacceptable		8 pts
Used and document Mathematical Modeling Evidence of a deep understanding of the modeling process, engineering design process, and the connection between these processes and real-world problems and society.	9 pts Excellent	7 pts Developed	5 pts Proficient	2 pts Unacceptable	0 pts Undeveloped	9 pts
Total Points: 25						