

Third Reader Only

Grading Criteria for Assignment 1: Design Report on Rocket Project

Demonstrates awareness of audience and purpose	50	
<input type="checkbox"/> Conveys key information regarding the project goal, the design approach, and the design solution in the executive summary		
<input type="radio"/> Explains goal of project in terms of optimization, not simply farthest distance		
<input type="radio"/> Explains approach to optimization		
<input type="radio"/> Provides relevant performance results to describe design solution		
<input type="radio"/> Presents information clearly and concisely		
<input type="radio"/> References relevant figures and tables		
<input type="checkbox"/> Summarizes and evaluates performance results in the conclusion		
<input type="radio"/> Summarizes optimization		
<input type="radio"/> Evaluates performance results by providing quantitative comparison of performance to predictions based on testing		
<input type="radio"/> Explains the physics behind factors affecting performance results		
<input type="radio"/> Offers conclusions about success of design solution		
<input type="radio"/> References relevant figures and tables		
Demonstrates ability to present technical information	50	
<input type="checkbox"/> Uses figures effectively to highlight features of the design solution		
<input type="radio"/> Graphically defines the family of fins that was evaluated, identifying the parameter as well as key features, dimensions, and constraints		
<input type="radio"/> Provides a complete diagram of the final rocket design with key components labeled		
<input type="radio"/> Indicates dimensions of the rocket on the diagram, including optimized parameters		
<input type="radio"/> Includes concise, informative captions and labels as appropriate that allow figures to be interpreted independently of the report text		
<input type="radio"/> Produces neatly drawn or computer-generated figures to scale		
<input type="checkbox"/> Uses figures and tables effectively to show data that informed design optimization		
<input type="radio"/> Constructs graphs to maximize readability		
<input type="radio"/> Presents data in appropriate graphic form to reflect interpretation		
<input type="radio"/> Identifies parameters, including which were held constant and which were varied		
<input type="radio"/> Indicates relationship between data and optimized parameters		
<input type="radio"/> Includes concise, informative captions or titles as appropriate that allow figures and tables to be interpreted independently of the report text		
Total (20% of final report grade)	100	