Engineering Design Rubric

	Unsatisfactory	Beginning	Developing	Exemplary
Identify & Imagine 	Solution does not address the challenge.	Solution addresses the challenge and demonstrates significance.	Solution addresses the challenge, demonstrates global significance, national implications, and local impact.	Solution addresses the challenge, demonstrates global significance, national implications, and local impact. It is meaningful to the participants and their community.
Design 	Design shows no evidence of research. Sketches aren't included. The written plan isn't organized and is hard to follow.	Design shows little evidence of research and careful deliberation. Sketches are included with little or no labeling. The written plan has little organization and is hard to follow.	Design shows some evidence of research and careful deliberation. Sketches are included with some labeling. The written plan is organized and could be followed to completion.	Design shows clear evidence of research and careful deliberation. Detailed sketches are included and have every part labeled. The written plan is well-organized and clearly describes each step to completion.
Create 	Prototype was built freely and a material list isn't included. Materials were handled and stored improperly and safety rules weren't followed.	Prototype was built freely and a material list is included. Materials were handled and stored properly and safety rules were followed.	Prototype was built from a team plan and a detailed material list is included. Materials were handled and stored properly and safety rules were followed.	Prototype was built from a team plan with detailed procedures. A detailed material list is included. Materials were handled and stored properly and safety rules were followed.
Test & Improve 	Prototype wasn't tested and inadequate data was collected.	Prototype was tested for a specified amount of time. Conclusions were drawn from prototype testing.	Prototype was tested for a specified amount of time with some data collection. Conclusions were drawn from data collected during prototype testing. Improvements were made to address identified system failures.	Prototype was tested for a specified amount of time with extensive data collection. Conclusions were drawn from data collected during prototype testing. Graphs/charts were used to project outcomes and identify system failures. Improvements were made to address identified system failures and inadequacies.
Share 	Findings were not shared with the class or were hard to understand. Student logbooks were not used.	Clear and concise perspectives on what was learned about the topic and the process were shared with the class. Student logbooks were used minimally.	Clear and concise perspectives on what was learned about the topic and the process were shared with the class in a unique way. Student logbooks were used regularly to record the design process.	Clear and concise perspectives on what was learned about the topic and the process were shared with the class in a unique way. Student logbooks were used regularly to record the design process. Findings were presented in a unique way to a broader audience.