

Engineering Project Rubric

Project Title _____

Student (s) _____

Total Score _____

Grading Scale

Engineering Design Process	1	2	3	4
Identifying the problem	Vague of understanding problem	Can describe one element of problem	Clearly articulates problem	Clearly articulates problem and foresees relevant issues that might also arise
Identify the engineering criteria (goals) and design constraints	Only identifies one goal or one design constraint	Identifies just the goals or just the constraints	Identifies all the goals and constraints	Identifies all goals and constraints and suggests new goals / considerations in resolving the problem
Imagine possible solutions	Unable to think of a solution or copies someone else's idea	Thinks of one solution	Thinks of more than one solution	Thinks of more than one solution and articulates the benefits or trade-offs of each solution, including those of others
Make a plan for a possible solution	Draws a solution	Uses a labeled diagram	Uses a labeled diagram and can explain their plan	Uses a labeled diagram, can clearly explain plan and rationale for their design choices.
Test ideas and improve design based on results	Narrowly focuses on one solution and makes no adjustments based on results	Tests ideas, but makes improvements based on subjective opinion rather than data	Tests ideas and makes appropriate improvements based on results	Tests ideas and is able to narrow variables in order to more precisely identify areas for design improvement

