

	1 UNSATISFACTORY	2 COMPETENT	3 PROFICIENT	4 DISTINGUISHED
<b>Knowledge/Understanding</b>	Work lacks understanding of concepts, materials, and skills.	Work shows some understanding of concepts, materials, and skills.	Work reflects an understanding of concepts and materials, as well as use of skills discussed in class.	Work shows a mastery of skills and reflects a deep understanding of concepts and materials.
<b>Thinking/Inquiry</b>	Investigation not connected to the Engineering Challenge.	Investigation loosely or inconsistently connected to the Engineering Challenge.	Investigation is consistently connected to the Engineering Challenge and demonstrates an adequate level of analysis and response to data.	Investigation demonstrates a mastery level of ongoing analysis, evaluation, response to data, and creativity.
<b>Communication/Team Participation</b>	Lacks competency in written and oral communication. Communication is unclear, missing, or lacks clarity.	Shows some understanding of written and oral communication. However, clarity and execution are inconsistent.	Written and oral communication is clear, consistent, and comprehensible.	Demonstrates mastery of written and oral communication. Investigation is detailed, articulate, clear, and consistently comprehensible.
<b>Application</b>	Misses more than two steps of the engineering design process to solve a real-world problem. Does not demonstrate a working knowledge of how to implement the design process.	Misses two steps of the engineering design process to solve a real-world problem. Has an overview of the process but is unsure how to implement all the components.	Applies all but one step of the engineering design process to solve a real-world problem. Mostly understands the process.	Applies the engineering design process to solve a real-world problem and follows through on all parts of the design. Has a clear understanding of the process.

**Effort**

Work not completed in a satisfactory manner. Shows minimal effort and does not use class time effectively.

Work complete but lacks finishing touches or can be improved with a little effort. Does just enough to meet requirements.

Completed work in an above average manner, yet more could have been done to achieve excellence.

Completed work with excellence and exceeded expectations. Exhibited an exemplary commitment to the project.

# Engineering Design Process Rubric

Based on 20 points

Use the scoring rubrics to guide work and to gauge performance.  
Performance will be assessed by the instructor at the completion of the task.