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**Sample Rubric – WOW Pump It Up!**

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|  | **Expert** | **Proficient** | **Intermediate** | **Novice** |
| **Ask** | Provides a clear definition of the problem with criteria and constraints outlined.  | Criteria and constraints are provided.  | Criteria and constraints are provided, but not complete.  | Criteria and constraints are not evident. |
| **Explore** | Explore includes component testing procedures & results.  | Component testing in place, but details not provided.  | Component testing is lacking in directions or results.  | Component testing is not evident. |
| **Imagine/Plan** | Sketch is labeled and easy to follow. | Sketch is adequate. | Sketch is difficult to follow. | No Sketch is available. |
| **Create/Test** | Sketch of final system and differences between final and initial design are explained. Detailed test results and observations provided. | Final system design explained, but differences between initial and final designs overlooked. Test results and observations in place. | Final design explanation/sketch lacking detail. Test results and observations difficult to follow. | One or more item is missing* Final design sketch or explanation
* Test results
* Observations
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| **Improve** | Explanation of good and bad features of design are included. Claims based on evidence are provided. | Claims were made about the good and bad features of the design, but evidence was lacking. | Claims made about the design were lacking and supporting evidence was insufficient. | Claims and evidence were not provided or incompatible. |
| **Conclusion** | Reflections acknowledge difficulty of design and utility of engineering design process with clear examples. Experience effectively related to CAP system. | Reflections acknowledge difficulty of design and utility of process with clear examples. No relationship to the CAP system is mentioned. | Reflections provided, but examples lacking. Connections to the CAP system are basic, and not related to design experience. | Reflections and connections to the CAP system are missing or irrelevant to project. |
| **Teamwork (Student self evaluation)** | Members of the team cooperated. Everyone contributed and was respectful. Team was focused and on-task. | Members of the team worked together with everyone contributing, but not always on task. | All members did not contribute to the team. Some members were left out or chose not to contribute. | Team did not work well together. Was often off-task. |