Engineering Design Rubric

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| --- | --- | --- | --- | --- |
|  | Budding Engineer  1 | Novice Engineer  2 | Apprentice Engineer 3 | Master Engineer  4 |
| Engineering Design Process | I am not clear, or give few details to explain what I did. | I am give a few details to explain how I solved my engineering problem | I am clear and explain in order with details how I completed my project and solved my engineering problem | I was able to redesign my project to make it better and explain how I solved my problem with several details |
| Criteria and Constraints | I did not follow criteria or constraints as provided for project | I followed some of the criteria and constraints, but may have needed to redesign to follow expected guidelines | I followed the expected criteria and constraints with 1-2 reminders | I used all materials in an appropriate manner and followed the expected criteria and constraints as provided for project |
| Presentation  And Journal Conclusion | My journal entry is incomplete and I need to show more pictures, labels, words, or sentences to explain my work. | I use pictures or words to explain how I solved my engineering problem, but I might be missing some part or details | I use pictures, words, and labels to show how I completed my project | I am able to show and explain with pictures, sentences, and labels how I used my design to test and solve my engineering problem |
| Cooperative  Team  Work | I do not work with other students, argue, I don’t want to share or compromise on how to complete the project, and I am often off task or don’t complete my work. | \*I sometimes work with other students  \*I may periodically argue or need redirection.  \* I am sometimes off task during the project  \*I can not compromise | \* I work well with other students, follows the rules and expectations.  \* I am on task most of the time working on my project | Student is a leader in the group, assists with all the activities, independently follows directions and extends learning.  \*I used my time effectively and am fully engaged  \* I compromise and work together |

Student Evaluation