**Saving Coral Reefs: Grading Rubric**

The following criteria will be used to grade your project in its entirety. You will be graded on various criteria based on each step of the engineering design process.

| **Grading Criteria** | **Excellent (4)** | **Proficient (3)** | **Satisfactory (2)** | **Needs Improvement (1)** | **Failed (0)** |
| --- | --- | --- | --- | --- | --- |
| ***Ask*: Identify project criteria and constraints** | Criteria and constraints both very well defined, with maximum details and explanation | Criteria and constraints both well defined, with good details and explanation | Criteria and constraints both defined, with some details and explanation | Neither criteria nor constraints defined, or defined with very little detail and explanation | Neither criteria nor constraints defined |
| ***Research:* Conduct relevant research on the project topic** | Research conducted was extremely thorough | Research conducted was thorough | Research conducted was mostly thorough | Research conducted was not thorough | Research was not conducted |
| ***Research:* Define the specific problem you are trying to solve** | Problem was defined in great detail | Problem was defined in good detail | Problem was defined | Problem was not fully defined or was not defined at all | Problem was not defined |
| ***Imagine:* Brainstorm numerous ideas for prototypes using a specific brainstorming method** | Brainstorming was very thorough | Brainstorming was thorough | Brainstorming was somewhat thorough | Brainstorming was not thorough | Brainstorming was not conducted |
| ***Plan:* Sketch prototype #1, explain prototype sketch** | Prototype sketch was done with great detail and very well explained | Prototype sketch was done with good detail and well explained | Prototype sketch was done with some detail and explained | Prototype sketch was done with few details and not well explained | Prototype sketch was not completed |
| ***Plan:* Create a list of materials to be used for prototype** | Materials list was extremely thorough and gave reasoning for each item | Materials list was very thorough | Materials list was completed | Materials list was barely completed | Materials list was not completed |
| ***Create:* Build prototype** | Prototype was built by group with no issues, arguing, or disruptions | Prototype was built by group with few issues, arguing, or disruptions | Prototype was built by group with some/few issues, arguing, or disruptions | No prototype was built, or it was built with a lot of group issues, arguing, and disruptions | Prototype was not built |
| ***Test:* Test original prototype** | Original prototype test was completed, with full participation from group, and instructions were followed | Original prototype test was completed, with participation from group, and instructions were mostly followed | Original prototype test was completed, with some group participation, and some instructions were followed | Original prototype test was not completed or completed with little group participation, and little to no following of instructions | Test was not conducted |
| ***Improve:* Reflect on prototype and make necessary adjustments** | Full reflection was completed with clear thought and in-depth reflection | Full reflection was completed with thought and reflection | Some reflection was completed with some thought | Some or very little reflection was completed | Reflection was not done |
| ***Overall:* Grammar and Spelling** | No grammar and spelling mistakes in entire project | Few grammar and spelling mistakes | Some grammar and spelling mistakes | A lot of grammar and spelling mistakes, making it difficult to read and understand | Severe grammar and spelling issues |
| ***Overall:* Participation** | Student received perfect peer evaluations from all group members | Student received evaluations from group members with mostly 4 and 5 for each category | Student received evaluations from group members with mostly 3 and 4 for each category | Student received evaluations from group members with all below 3 for each category | Student received mostly 1 on peer evaluations |

Total points: \_\_\_\_\_\_\_\_\_/44