

Name:

Date:

Class:

## 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)
<b>Ask: Identify project criteria and constraints</b>	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
<b>Research: Conduct relevant research on the project topic</b>	Research conducted was extremely thorough	Research conducted was thorough	Research conducted was mostly thorough	Research conducted was not thorough	Research was not conducted
<b>Research: Define the specific problem you are trying to solve</b>	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
<b>Imagine: Brainstorm numerous ideas for prototypes using a specific brainstorming method</b>	Brainstorming was very thorough	Brainstorming was thorough	Brainstorming was somewhat thorough	Brainstorming was not thorough	Brainstorming was not conducted
<b>Plan: Sketch prototype #1, explain prototype sketch</b>	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

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Grading Criteria	Excellent (4)	Proficient (3)	Satisfactory (2)	Needs Improvement (1)	Failed (0)
<b>Plan: Create a list of materials to be used for prototype</b>	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
<b>Create: Build prototype</b>	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
<b>Test: Test original prototype</b>	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
<b>Improve: Reflect on prototype and make necessary adjustments</b>	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
<b>Overall: Grammar and Spelling</b>	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

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Grading Criteria	Excellent (4)	Proficient (3)	Satisfactory (2)	Needs Improvement (1)	Failed (0)
<b>Overall: Participation</b>	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