

	4	3	2	1
Brainstorming Solutions	Several group members contribute multiple plausible ideas.	Several group members contribute plausible ideas.	Some group members contribute plausible ideas	One group member contributes plausible ideas.
Generating Ideas and building prototype	Team gives at least two detailed drawings of plausible designs and builds a reasonable prototype for testing and optimization.	Team gives at least two drawings of plausible designs and builds a reasonable prototype for testing and optimization.	Team gives only one drawing, or drawings are not detailed, or prototype is not reasonable for task.	No drawings provided prior to building prototype and/or prototype is not reasonable for the task.
Optimization Process	Group optimizes prototype based on testing process, data collected, and creative ideas and markedly improves the percentage of target species caught.	Group optimizes prototype based on testing process and data collected and improves the percentage of target species caught.	Group refines prototype but does not adequately respond to testing process to improve the percentage of target species caught.	Group does not adequately improve prototype.
Presentation of Final Prototype	Team presents a creative final product that is more successful than the original and clearly explains how the prototype was optimized based on data collected.	Team presents a final product that is more successful than the original and explains how the prototype was optimized.	Team presents a final product that is more successful than the original and describes how the prototype was refined.	Team presents final product.