Name:	Date:	Average:	out of 4

"Projects with a Purpose" Rubric

J I	Ctudout	Taaahau
Key:	Student	Teacher
1 = Beginning (little to no mastery of skill)	Evaluation	Evaluation
2 = Developing (some mastery of skill) 3 = Proficient (mostly mastered skill)		
4 = Advanced (fully mastered skill)		
Connecting Your Project to Philanthropy		
Describe how the idea of philanthropy influenced or inspired your choice of	1 2 3 4	1 2 3 4
a problem to solve.	1234	1234
Explain the benefits of your project for your client or recipient.	1 2 3 4	1 2 3 4
Asking Questions and Generating Solution Ideas		
Brainstorm numerous ideas for a problem to be solved.	1 2 3 4	1234
Conduct an interview with one or more adults in your community.	1 2 3 4	1 2 3 4
Research existing solutions related to your problem.	1 2 3 4	1 2 3 4
Clearly identify project criteria and constraints.	1 2 3 4	1 2 3 4
Consider multiple ways to solve the problem.	1 2 3 4	1 2 3 4
Developing a Solution		
Justify the chosen design solution based on project criteria and constraints.	1 2 3 4	1 2 3 4
Effectively apply principles of computer-aided design, engineering, science,	1 2 3 4	1 2 3 4
and mathematics as needed to solve the problem.		
Keep detailed records and sketches of the design possibilities, plans, and	1 2 3 4	1 2 3 4
revisions in the engineering notebook.		
Review the proposed design with the client prior to making the prototype.	1 2 3 4	1 2 3 4
Constructing and Testing a Prototype		
Persevere to create a prototype.	1 2 3 4	1 2 3 4
Creatively and responsibly use resources and materials.	1 2 3 4	1 2 3 4
Test and revise the prototype to ensure it meets the project criteria and	1 2 3 4	1 2 3 4
constraints.		
Review the prototype with the client and ask the client to suggest ideas for	1 2 3 4	1 2 3 4
Improvement. Improving and Evaluating		
Self-assess the prototype and identify any design flaws or problems.	1 2 3 4	1 2 3 4
Use time and resources effectively to make improvements to the solution.	1234	1 2 3 4
Deliver the final solution to the recipient.	1 2 3 4	1 2 3 4
Document the impact of the final solution on the recipient and show how	1 2 3 4	1 2 3 4
well the solution is working for the recipient.	1 2 3 4	1 2 3 4
Communicate lessons learned from the project.	1 2 3 4	1 2 3 4
- 1 - 2 - 2	1 2 3 7	1 2 3 7