

Beats by _____ | Rubric

Total points possible = 54 Grade calculated out of 50		Proficient (3)	Developing (2)	Beginner (1)
Intro	Define your role and the stakeholders			
	Define the task - What problem did you and your team solve?			
	Define the constraints and criteria - Include at least 3 relevant factors that should be included in your design			
	Comments:			
Testing	What variables did you change in your testing? How did you determine what variable affected your tempo the most?			
	What did you measure in your testing? What was your method for getting this value?			
	Testing Photo - Include a photo of prototype testing with your group			
	Comments:			
Data	Table of testing results - only for the variable that has the greatest effect on the tempo			
	Graph of testing results - only for the variable that has the greatest effect on the tempo. Describe what kind of relationship this is. (i.e. Linear, Exponential, Inverse, or Root)			
	Linearized Graph - include a description of what you did to linearize			
	Equation - Use your linearized graph to derive the equation for your pendulum. Instead of using x and y, insert variables that represent what they actually mean (i.e. Length			

	could be “L”)			
	How does this graph help your design choices? Once you have the bpm of your mystery song, how can you use your data to set up your prototype?			
	Comments:			
Performance	Self Chosen Song: Successfully swings to the beat of self chosen song for a time of 15 seconds.			
	Client Chosen Song: Successfully swings to the beat of client chosen song for a time of 15 seconds.			
	Comments:			
Discussion of Future Changes	Clearly outlines the successes and challenges of the design process			
	Suggests a plan for future work on the project			
	Comments:			
Format and Writing	Report is submitted in a report format. See the Role and audience description in the project details.			
	Writing is professionally done and free of grammatical or syntax errors			
	Report includes bold headings to help readers break up the information into smaller chunks			
	Comments:			