

Name: _____ Period: _____

Headphone Project Rubric

1. Approval of Prototype + Elevator Pitch

The speaker prototype is audible. The elevator pitch convinces the venture capital firm that you understand the physics, are capable of bringing your product to market, and that it will be commercially successful. (10 pts)

Date pitched: Denied Funded

Re-pitched on: Denied Funded

2. Headphone audio performance (using http://www.audiocheck.net/soundtests_headphones.php)

Test	10 pts	8 pts	6 pts	4 pts	2 pts
<i>Low frequency response</i>	40 Hz or lower	80 Hz	120 Hz	160 Hz	200 Hz or higher
<i>High frequency response</i>	18 kHz or higher	14 kHz	10 kHz	6 kHz	2 kHz or lower
<i>Dynamic range</i>	30 dB below full scale or greater	24 dBFS	18 dBFS	12 dBFS	6 dBFS or less
<i>Quality</i>	No buzzing/rattling at any audible frequency	Slight buzzing/rattling	Moderate buzzing/rattling	Pronounced buzzing/rattling	Severe buzzing/rattling
<i>Driver Matching</i>	Sound is centered in middle of head	Slight sound deviation	Moderate sound deviation	Pronounced sound deviation	Severe sound deviation

3. Design Evaluation

In order to determine the design appeal of your headphones, the investors will use this rubric for evaluation:

Area evaluated:	Description		
<i>Durability</i>	Headphones are well-built and will withstand everyday use (10 pts)	Headphones lack durability, feel cheap or flimsy to the user (5 pts)	Headphones are extremely fragile and likely to break within first few uses (0 pts)
<i>Style</i>	The style is unique and can be marketed to a particular demographic/age group (10)	The headphones are bland and may be a tough sell. (5)	The headphones do not appear desirable. (0)
<i>Comfort</i>	User is comfortable wearing headphones for long periods of time (over 1 hour of use) (10)	User experiences moderate discomfort wearing headphones (5)	User is extremely uncomfortable wearing headphones (0)
<i>Design Brief</i>	Includes all explanation of how speakers work (the physics), 3 pictures or sketches of prototypes, and an justification of choices for materials, construction, etc. (10)	Some explanation of how speakers work is missing or incorrect. Some missing documentation of prototyping process. Some missing justification of design decisions. (5)	Most information about how speakers work is missing or incorrect. Most documentation of design process is missing. No justification of design decisions. (0)

Final Point Value (score):

Elevator pitch & prototype completed: _____/10 points

Audio performance score: _____/ 50 points

Design Evaluation score: _____/ 40 points

TOTAL value: _____/100 points