

FILL IN THE BLANK Final Design Project (Student Design Journal “engineering note book”)

Student Name (s): _____ Project Name: _____

* Print and staple journal to this rubric. Student (s) self grade rubric by writing a number between 1 and 4 for each item. **TURN in before presenting.**

Criterion	1 Point to 4 Points
Ask. Defining the project, and establishing goals.	
<u>Research</u>	Enough sources were used to understand the goal (at least 4). YES or NO
<u>CRITERIA AND CONSTRAINTS</u>	Enough specifications were developed (at least 8). Yes or No
Imagine. Working with your group to develop possible solutions to your problem. Establishing ways to meet the project goal.	
Brainstorming	Several Ideas were considered. (at least 4). Yes or No
Used <u>TRADE OFFS</u> to compare ideas.	<u>A TRADE OFF</u> pro vs. con matrix was made. Yes or No
Planning. Creating the best plan to carry out your project.	
Developed Plan and revised as necessary.	A plan was developed, and used for construction. Plan was revised when changes were made. YES or NO
Drawings & Sketches	A drawing* was made with enough details. YES or NO * Flowchart for process.
Create. Make It.	
Modeling or <u>PPROTOTYPE</u>	A Model or Prototype* was made showing enough details. YES or NO. * Improved / detailed Flowchart for process.
Construction Quality	Complete project demonstrating care and craftsmanship. YES or NO. * Detailed narrative for process.
Improve. Testing and improving on project.	
<u>ANALYSE AND EVALUATE</u>	Improvements were made based on product tests or peer feedback. YES or NO.
<u>ITERATION: TRIAL AND ERROR</u>	Records of improvements were kept. YES or NO

FILL IN THE BLANK Final Design Project (Project Presentation)

Student Name (s): _____ Project Name: _____

* Print and staple the slide show presentation (correctly) to this rubric. Student (s) self grade rubric by writing a number between 1 and 4 for each item. **TURN in before presenting.**

Criterion	1 Point to 4 points
Content.—Develop your persuasive argument using details from the <u>DESIGN PROCESS!</u>	
Claim	Clearly Developed Claim with details. YES or NO
Claim or counter claim	Clearly Developed Claim/Counter Claim with details. YES or NO
Claim or counter claim	Clearly Developed Claim/Counter Claim with details. YES or NO
Counter claim	Clearly Developed Counter Claim with details. YES or NO
Content.— Empathy and Advertisement / Sales Pitch of Optimized Design.	
Design Thinking User Empathy	A clear description of how the user will benefit from the product. YES or NO
Effectiveness of presentation.	Convincing sales ‘pitch’ strategies were used. YES or NO DO <u>NOT</u> INCLUDE A PRODUCT PRICE IN THE SALES PITCH
Public Speaking & Presentation Skills (This portion of the rubric is not self graded)	
Volume and tone	Clear and easy to hear. Few uses of filler words. Evidence of practice.
Eye Contact	Faces audience, looks at audience while speaking.
Body Language	Good posture—few distracting motions or gestures.
Use of Visual Aids	Includes images in the slide show and presentation of physical model