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| **Product Design** | **Pts** | **Schmitt’s Pts** | **Self-Assessment**  **score and notes** | **Description** |
| Define the Problem | 10 |  |  | * Identify the target audience for product. * Establish criteria and constraints. |
| Research the Problem | 50 |  |  | Find 10 designs of desk organizers that currently exist and include the following for each:   * Cost * Description * Picture * Likes and dislikes about the design |
| Develop Possible Solutions | 60 |  |  | Create at least 3 solutions and include the following for each:   * Sketch of the design * Description of the design * Materials you would use for each part |
| Choose the Best Solution | 25 |  |  | Create a Pugh chart and rank each design on the criteria and constraints you created. |
| Create a Prototype | 125 |  |  | * Draw a clean sketch of the design. (15 pts) * Create a list of materials needed to build the prototype. (10 pts) * Build your Prototype (100 pts)   + *Aesthetics / looks (25 pts)*   + *Solid construction (25 pts)*   + *Overall design functionality (50 pts)* |
| Test and Evaluate | 20 |  |  | Answer the following questions (nothing is not a true reflection…there are always changes):   * What works? * What doesn’t work? * What do you like or what would you change about the aesthetics? * What do you like or what would you change about the materials? |
| Communicate | 75 |  |  | * Create a presentation to document your project parts listed in the rubric. (25 pts) * Create a 1-2 minute Shark Tank pitch for your product. Imagine it as a commercial advertisement or sales pitch. (75 pts) * Correct time/length (15 pts) * Production quality (30 pts) * Demonstration of the product (15 pts) * Why should I buy it? (15pts) |
| Redesign | 20 |  |  | There are always redesigns in initial designs. A redesign doesn’t mean your design is not good, it just means we can make it better.   * Sketch your new design. * Make a bulleted list of your redesign modifications. |
| Presentation | 15 |  |  | Presentation and video. |
| **Total Points** | **400** |  |  |  |