Design Process Reflection Questions

**Instructions:** Use the information, notes, and observations you recorded in your engineering notebook throughout this design challenge to reflect on your work through the challenge and the effectiveness of your design solution. As you answer each question do so in **bold** so that your response is clearly identifiable from the question.

**Brainstorming Reflection:**

1. One scientific idea / principle / concept I discovered as part of my research for this design challenge was...

   a.) Link / citation or description / summary (if offline) of source:

   b.) Date source was found:

2. The scientific idea / principle / concept I learned influenced my ideas and final design by...

3. One test I conducted during this design challenge was...

   a.) Because of the results of this test, I determined that...

   b.) This information influenced my design because…
Design Selection Reflection:

4.) The data / information / observation that allowed me to select one of my brainstorming ideas for my final design were...

   a.) Link / citation or description / summary (if offline) of source

   b.) Date source was found

5.) The reason that this piece of data / information / observation made me select one of my brainstorm ideas for my final design was...
Construction Reflection:

6.) One challenge that I faced in the construction of my final design was…

7.) I solved this problem by taking the following steps…

   a.) Attached photo which represents the challenge you faced or your attempted solution to it

8.) The overall effectiveness of my solution to this problem in the final testing of my product was…

   a.) Attached photo which represents your the effectiveness (or lack there of) of your solution in solving the original problem you encountered

9.) Looking back, another way to resolve this problem would have been...
Final Evaluation Reflection:

10.) According to the design criteria my final design solution was successful / unsuccessful (bold one).

11.) The evidence that demonstrates the effectiveness of my final design solution at solving the problem is...

12.) From the results of my testing, one change I would make to improve my design solution is...

13.) This change would make my design solution better because...

14.) If I was going to do this design challenge again, one step of the design process I would approach differently would be...

15.) Approaching this step differently would result in a better final design solution because?
Partner Collaboration Reflection:

16.) One struggle I had while working together with my peers / because I worked independently was…

17.) One action I took to overcome this struggle was to…

18.) The effectiveness of the action in resolving the struggle was...