

Title: Paper boat

Engineering Challenge

July 20, 2022

Problem Statement: Write the problem statement in your own words and interpretation. What are you trying to achieve? What is being learned through this challenge?

The problem is to hold as much stuff as possible on a paper boat for 5 minutes. We learned how to use our resources and cooperate to achieve a goal with creative ideas.

Materials: List the materials given (if any).

A single piece of paper, and weights

Approach: Write a description of your plan to achieve the goal of the problem statement. Add drawings/sketches/CADs if possible.

Our approach was to build a normal paper boat, and then put a bunch of marbles in it. We thought of several ideas, but settled for a normal paper boat, as we already knew that that would float.

Solution: What is your solution to the given problem?

Our solution was making a paper boat, and putting a bunch of marbles in it. We grabbed a handful of marbles, weighed them, and just put them in the boat. To be honest, we did not have a good idea if it would hold them for 5 minutes.

Analysis: After testing, did it achieve your goal? Either way, what could you have done better? If given more time/materials, what would you do differently?

We did achieve our goal. Our boat barely held out for 5 minutes, and when I picked it up I noticed it had a small tear in the corner, but it still worked. There was also water that flooded into the boat, but regardless, it worked for 5 minutes. We could have made a different boat, and I probably would have added more marbles if I could.

Images:

Here is a photo of some of the other groups

