

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?

Make a boat with a piece of paper to hold the heaviest object for 5 minutes to win against other teams. The object used for this challenge to add weight to the boat may not be floatable.

Materials: List the materials given (if any).

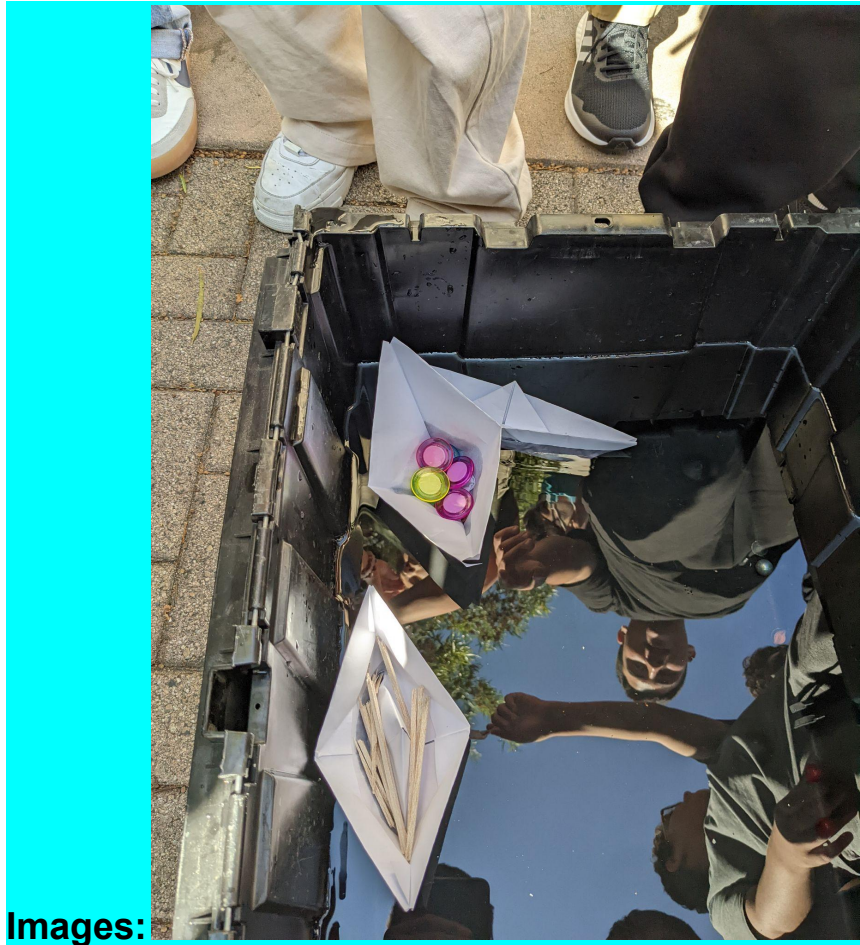
We were given a piece of paper and anything Mr. Poole allowed us to use for weight.

Approach: Write a description of your plan to achieve the goal of the problem statement. Add drawings/sketches/CADs if possible. We made a paper boat by folding the paper into a boat. We then added marbles and balanced them in order to make the boat not tip over.

Solution: What is your solution to the given problem?

We built a paper boat to hold marbles for five 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? What I would do differently is make a different formatted raft to spread weight equally and to have surface area. If I were to do this again with more time and materials I would use wood and large bins. I would drill the two together making the bins on the bottom and the wood on top. I would also put buckets on the sides to make it not tip over if it had weight on the boat that was unevenly spread out.



Images:

