

## Title:

# 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?

In this challenge, I am creating a device only made of paper that can accomplish two tasks, floating on water and carrying an amount of weight. The challenge aspect was to see which groups' creation could float for the longest time with the heaviest weight on it. With this challenge, the capabilities of paper to be a floatation device are being learned and the craftiness of the groups is being tested.

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**Materials:** List the materials given (if any).

In my boat, we used just paper for the main boat, and a combination of pens, markers, and glue sticks to add weight.

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

At first, my group took out pieces of paper and folded them to see which design was the best and could work.

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**Solution:** What is your solution to the given problem?

The solution to the problem was to fold the piece of paper with small borders while keeping it with the most surface area as possible.

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**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?

Looking back at the experiment, I could have added less weight to the boat so that it could have lasted all 5 minutes. As well, if I had another piece of paper, the bottom would have been more supported and might have lasted longer.

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**Images:**

