# Title: Paper Boat

Engineering Challenge

September 16, 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 was that we needed a heavy boat to last at most 5 minutes. We need to learn how much weight paper can handle while soaked in water.**

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

**Materials:**

- **Paper**
- **Trident Gum Box**
- **Pins**

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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.

**The plan was to pin the pins on the bottom of our paper boat, so it could float in the water. We put the trident gum box in the boat for extra weight.**

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

**The solution was to make a flat boat with a lot of surface area, but with not too much weight.**

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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?

**Our boat sank in 40 seconds due to a hole in our boat while trying to find the best spot for the pins. If instead of using pins, we reshaped the boat so it was a flat paper with borders, I think we could have won**