

Title:Gutter Boats

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?

Use material given and build boats. It can be blown two times by each person

Materials: List the materials given (if any).

Plastic cup, 6 inches of tape, water balloon, popsicle stick

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

Place the balloon under the cup to make it slide on the water.

Solution: What is your solution to the given problem?

Cut the cup into half and place the balloon under it and attach a popsicle stick at the side to help it float on the water.

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?

It was sinking and the boat was too heavy to move in the wind. I would have added more balloons and made a sail to add it to the boat.

Images: