

CARDBOARD BOAT RACE

1. Notes from Research. What characteristics you liked the most of different boats? What you noticed didn't work?

Then Draw the front Side and Top view with Dimensions, and Calculate your Density to prove it will FLOAT.

You need to Research at least 3 years of strengths and weaknesses of builds.

RESEARCH for CARDBOARD BOAT RACE
2023 For Each Boat List its Strengths & Weaknesses
https://youtu.be/7IXOtmA_fpk

BOAT 1 SHARK BAIT



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 2 Floating Sinkers



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 3 Not As Bad As The Titanic



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 4 The FinTastic Floaters



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 5 Motor Boaters



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 6 B1 Boys



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 7 SOS



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 8 Kenyon's Grave



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 9 USS I'm Board



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 10 Flounder Pounder



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 11 The Buoys



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 12 The CODfathers



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 13 The Titanic



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 14 Nacho Boat



Strengths:

Weaknesses:

Entry or Re-entry Issues:

RESEARCH for CARDBOARD BOAT RACE
2022 For Each Boat List its Strengths & Weaknesses



Boat 1



Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 2

Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 3



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 4

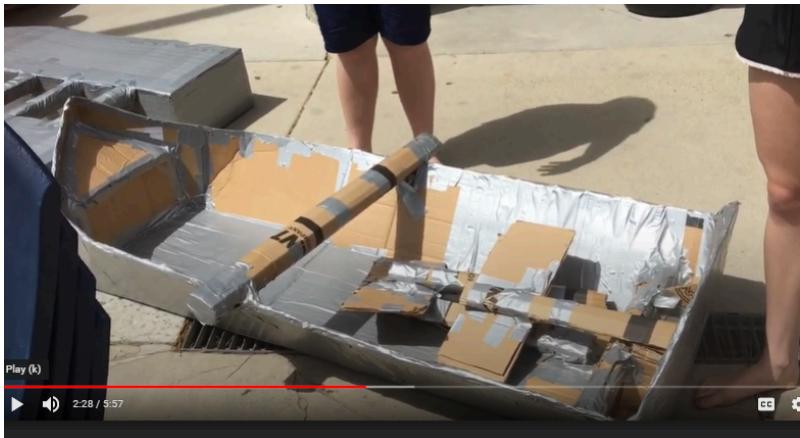


Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 5



Strengths:

Weaknesses:

Entry or Re-entry Issues:



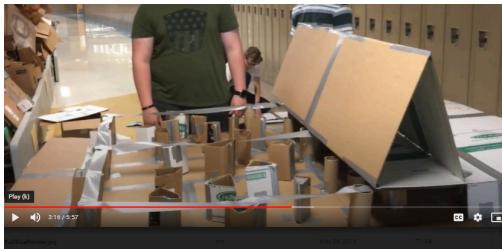
Boat 6

Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 7



Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 8

Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 9



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 10



Strengths:

Weaknesses:

Entry or Re-entry Issues:

RESEARCH for CARDBOARD BOAT RACE
2019 For Each Boat List its Strengths & Weaknesses
Left to right



Boat 1

Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 2

Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 3

Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 4



Boat 5



Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 6



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 7



Strengths:

Weaknesses:

Entry or Re-entry Issues:

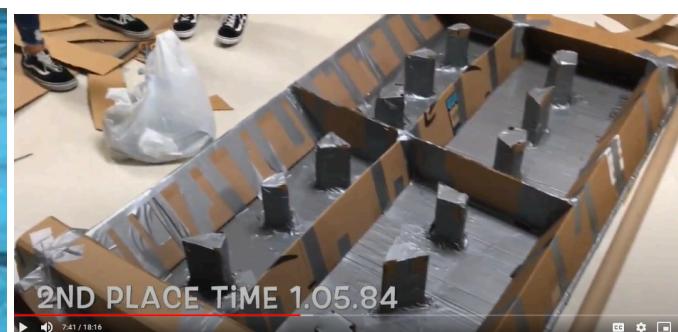
Boat 8



Strengths:

Weaknesses:

Entry or Re-entry Issues:



BOAT 9

Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 10



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 11



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 12

Strengths:

Weaknesses:

Entry or Re-entry Issues:





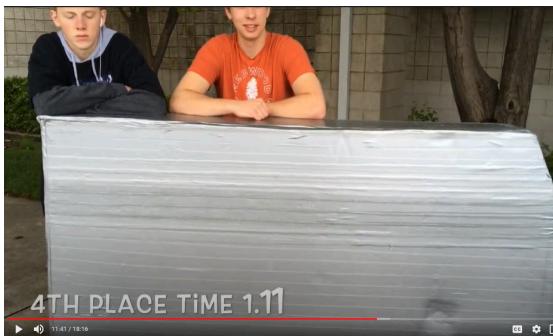
Boat 13

Strengths:

Weaknesses:

Entry or Re-entry Issues:

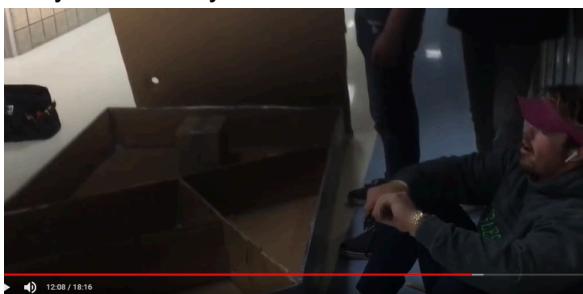
Boat 14



Strengths:

Weaknesses:

Entry or Re-entry Issues:



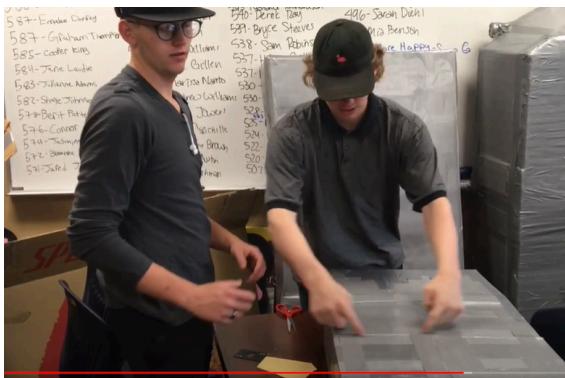
Boat 15

Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 16



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 17



Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 18

Strengths:

Weaknesses:

Entry or Re-entry Issues:



Boat 19



Strengths:

Weaknesses:

Entry or Re-entry Issues:



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 20



Strengths:

Weaknesses:

Entry or Re-entry Issues:

RESEARCH for CARDBOARD BOAT RACE
2018 For Each Boat List its Strengths & Weaknesses

Boat 1 - Capsize

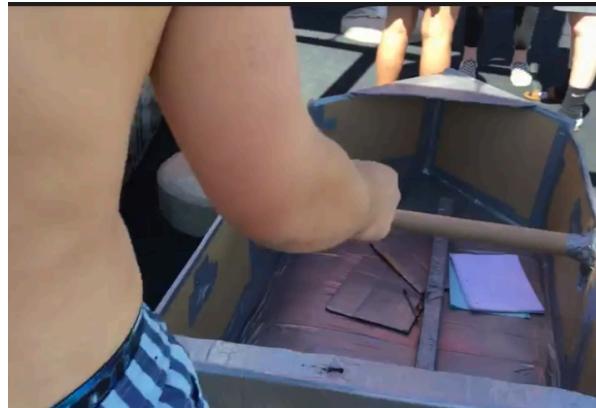


Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 2 Time 1'31" (3rd Place Winner 2018)



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 3 2'55" (9th place)

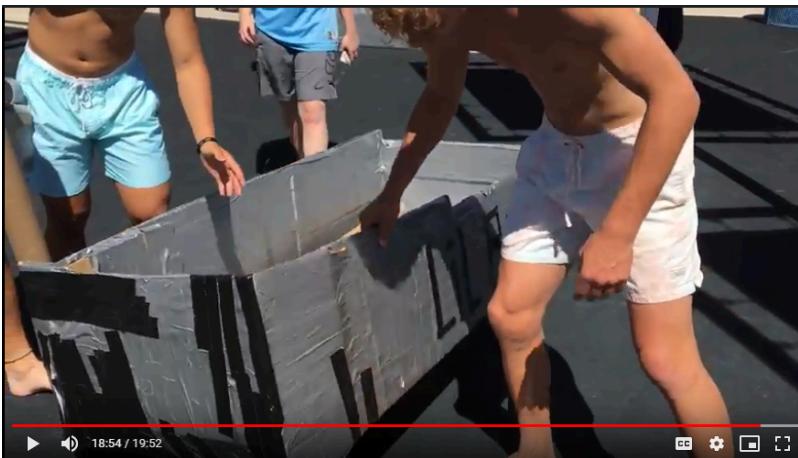


Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 4 swamped



Strengths:

Weaknesses:

Entry or Re-entry Issues:

BOAT 5 (First Place Winner 1'13")



Strengths:

Weaknesses:

Entry or Re-entry Issues:

Boat 6 (2nd place Winner) 1'18"



Second Place Boat

11:11 / 19:52

BOAT 7 Shark Boat (4th place)2'00"



4th Place boat

11:24 / 19:52

BOAT 10 (8th Place 2'32")



Boat 11 (5th place 2'00")



RESEARCH COMPLETED _____ /100

2. Draw a Diagram of your boat with measurements in cm.

TOP VIEW:

SIDE VIEW:

FRONT VIEW:

4. SHOW ALL WORK TO CALCULATE VOLUME:

List All contributions to Mass:

- _____
- _____
- _____
- _____
- _____

Total Mass:

Solve for Density. Will it float? If not REDO!

5. List at least 2 things you are doing to make the base of your boat super strong and solid enough to handle being strong under the weight. _____/40

1. _____

2. _____

6. Explain your strategies of how to best load and unload boat to keep from sinking right off the bat.

_____/10

6. Did your boat survive intaked?

REMEMBER IF YOU LEAVE ANY CARDBOARD IN THE POOL,
YOUR SCORE IS A ZERO.