

## Regatta Project Rubric – AP Physics 1

Self-propelled boats will race side by side over a distance of approximately 1.5 meters. The first boat to reach the opposite side wins. If neither boat reaches the opposite side, the boat which traveled the furthest distance wins.

### Rules:

1. The length of the boat cannot exceed 6 inches and the width cannot exceed 4 inches, excluding the balloon.
2. The boat must be self-propelled by a rubber band or balloon. You may not use a 'sling shot' design and you may not influence the boat after it starts.
3. You may only use approved items to build your boat.
4. The boat must stay in one piece for the entirety of the race.
5. The boat must stay in contact with the water for the entirety of the race.
6. The boat cannot consist of only a balloon, tape and straw. It must have a structure and be able to support 20 grams of external mass without sinking.

### List of Approved Materials:

Tape, Glue, Paper Towel Rolls, Paper, Cardboard, Plastic/Paper/Styrofoam Cups, Craft or Popsicle Sticks, Rubber band or Balloon, Straw, Bottle Cap, Paperclips, wood

### Rubric

1. Boat was built using approved materials.	0	.5	1
2. Boat was self-propelled.	0	.5	1
3. Boat was able to float.	0	.5	1
4. Boat design accounted for the laws of physics.	0	.5	1
5. Boat construction was of high quality.	0	.5	1

Bonus Points: \_\_\_\_\_

Reflection Points: \_\_\_\_\_

Total Points: \_\_\_\_\_

