2024 Wright's Pond Regatta - Rules

The Wright's Pond Regatta challenge is a chance to mix creativity, construction, and engineering skills with pure athleticism. All proceeds from the race will go to the Friends of Medford Recreation. Teams must contain at least 2 paddlers who will compete in races across Wright's pond. The race will be 75-100 meters with one turn. Winners will be required to run multiple heats, so durability matters! Awards and honor will be earned for both speed, style, and survival. *The race manager reserves the right to disqualify any boat that does not meet the following criteria*. REMEMBER: This event is for charity and fun. We would like all teams to compete with that spirit in mind!

Race Rules

- All boats need to be built before the event. All polyurethane/paint must fully dry on race day. They will be inspected prior to the race.
- It will be a bracket style tournament with three canoes at a time racing to and around a buoy, and the winner will advance to the next round.
- Duct tape, masking tape, or adhesives such as 'liquid nails' and 3M general purpose spray adhesive CAN be used to connect cardboard to cardboard and CAN be used to reinforce all seams and stress points. It CANNOT be used to waterproof boats. Your whole boat can not be covered in layers of duct tape.
- Waterproof the boat with Varnish, Paint, or Polyurethane (one-part, paint-like substance). (If you don't want your boat to sink, waterproof the entire boat with any paint-able, one-part substance like Varnish or Polyurethane inside and out.)
- Decorations are encouraged -as long as they don't affect structural strength or buoyancy. Boats CANNOT tow anything behind them for the safety of other boats.
- ➤ The crew compartment CANNOT be enclosed so as to interfere with escape. Every crewmember must wear a PERSONAL FLOATATION DEVICE (PFD) & proper footwear. PFDs will be provided at the event.
- There is a minimum of TWO crewmembers (each over the age over 10) in the boat for the race. All boats are human powered (paddles be provided).
- To qualify as a finisher in any heat, you must be IN your boat, not towing it in your teeth or between your legs.
- > All participants must be human. No pets are allowed on the canoes.

SEE THE NEXT PAGES FOR MORE DETAILED INSTRUCTIONS!

Approved Construction Materials

Approved materials	Not allowed materials
 The ENTIRE boat must be built of cardboar 	•
duct tape, and one-part polyurethane. (An	
part of your boat that touches the water n	nust o No Sona-Tubes, waxed or 'treated' cardboard
be cardboard. This includes the hull, decking	
keel, cowling, superstructure, oar locks,	 No wood, plastic, styrofoam or fiberglass
seating and rudder. Nuts, bolts, washers a	
staples are NOT allowed in hull construction	- · · · · · · · · · · · · · · · · · · ·
The cardboard may be as thick as you wan	t, adhesives
but may not be attached to wood, plastic,	
fiberglass, etc.)	 No wrapping in duct tape, plastic or fiberglass or similar product
 Only exceptions are the paddles & decorat 	tions
	 No caulking, wax, or tar
 Use cardboard boxes, "blocks", carpet tub 	es
	 No Staples, clamps, or screws
 Duct tape may be used to reinforce seams 	
	o <mark>No metal</mark>
 1 part polyurethane to waterproof the can 	noe.
• Paper spray adhesive.	

How the Race Will Go

- Bracket style tournament, with seeds drawn randomly
- Canoes will go head to head racing around a buoy, and the winner will advance to the next round.

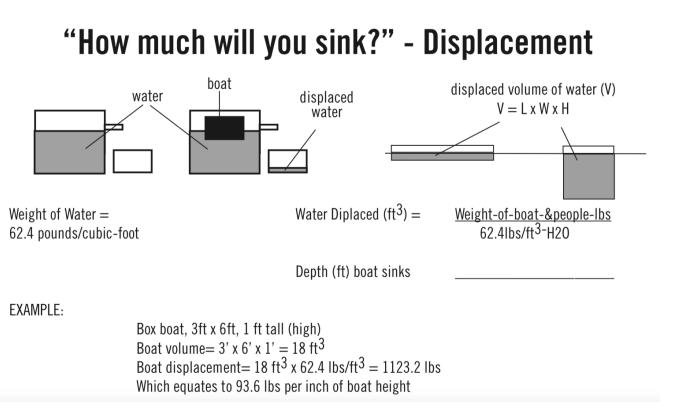
Building tips and tricks

Boat design

- Start with a model. It is much easier to build and redesign small scale models.
- Use a flat bottom boat. Flat bottom boats are much easier to build and are much more stable in the water
- Boat design styles: most boats fall into three design styles
 - Raft design: Think Huckleberry Finn. This is an open design where participants sit on top of a floating pile of cardboard.
 - simple canoe: This is the most common and the fastest at turning. Participants sit inside a canoe. Make sure your boat is wide enough to be stable.
 - Outrigger canoe: An outrigger can be added to the canoe to make it more stable. This allows the canoe to be made narrower without becoming tippy. These tend to be the fastest in a straight line.

- Length: long boats tend to be faster but hard to turn. Short boats tend to be slow but turn on a dime. Your boat needs to be somewhere in the middle. The best boats tend to be 8-12 feet long and have a wall height of around 18 inches.
- Wider boats tend to be more stable, but if they are too wide it becomes hard to paddle. Recommended widths are 18-30 inches.
- Reenforce the area you will be sitting or kneeling on.
- Some helpful math. Make sure your boat displaces enough water to float your team. a cubic foot of
 water weighs roughly 60 pounds. You want to make sure only about half your boat is underwater.
 Therefore if you have a team weight at 400 pound you will need a minimum of 14 cubic feet of water
 displacement. Always plan on extra buoyancy your canoes will rock side to side as you paddle you do
 not want water getting in your boat and sinking it.

Some Physics!



Hope this helps, See you race Day!