

2024 Boat Regatta Information

Date:

Feb 24, 2024

Add event to calendar:



Time:

Set up starts at 9:00AM

The races start at 10:00AM

Team crew needs to show up to D110 at 9:00AM to set up

Where:

The races will take place at the Hamilton Aquatic Center located at:

3838 S. Arizona Ave.
Chandler, AZ 85248



Students will need to meet in the Engineering Classroom, D110, at Hamilton High School at 9:00AM to pick up their boat and walk it to the pool.

Design Statement:

To use the engineering design process and physics principles to design and build a cardboard boat that will be paddled by two students across the pool and back.

Permitted Materials (BT = Building Tool):

- Corrugated cardboard (plain)
- Utility knife (BT)
- Straight edge (BT)
- Tape of any kind
- Wood glue
- Acrylic latex caulk - liquid nail
- Creasing tool (BT)
- Clamps (BT)
- Measuring tape (BT)

Boat Construction Rules:

1. Boat must be made entirely out of corrugated cardboard and should fit two paddlers.
2. Boats may be **no longer than 8 feet** and **no wider than 4 feet**.
3. Joints and seams may be taped, caulked, and/or glued.
4. When taping seams, **ONLY 1.5 inches OF TAPE CAN OVERLAP THE SEAMS.**
5. Materials other than listed above are forbidden.
6. Boats must be free of sharp edges and anything else that might pose danger to others.
7. The NAME of each boat should appear above the water line in at least 4 inches letters.

8. Boats can be decorated with permanent markers.
9. All boat names, designs, and themes, should be school-appropriate.
10. Both people **MUST be visible on the boat.**
11. The passengers on your boat **may not be enclosed above their shoulders** by the boat.
12. Your boat must fit through the doorway!

Provided Supplies

Each team will be provided the following:

- 1 large Sheet of cardboard up to 4'x8'.
- 1 roll of duct tape.
- 1 tube of liquid nails.
- Wood Glue.

Other Supplies

Teams can use other supplies that fit the design requirement and can be attained via the following list:

- Purchased
- Brought in
- Donated
- Traded

Event Rules

1. All boats must be in the designated drop-off area the day before the event takes place for a safety inspection.
2. Boats will be lined up according to heat number. The captain of each team is responsible for ensuring that the boat and all team members are where they are supposed to be. Heat numbers will be assigned ahead of the event.
3. Boat occupants must wear an approved life preserver/vest
4. No arms or legs may be in the water to assist with stability or propulsion
5. Boat occupants should be able swimmers (non-swimmers cannot be in the boat)
6. Certified lifeguards will be present
7. Only team members of participating groups will be allowed to deck during a given heat
8. If your boat capsizes or sinks, you must first remove all of your boat debris from the pool, and you must exit the pool as soon as possible (other boats will still be racing!)
9. There is NO swimming or diving in the pool during this event. Violators will receive a zero.
10. To qualify as a finisher, both team members must be in the boat at the end of the race.
11. Upon finishing your heat, you must immediately dispose of your boat properly (take it to the blue dumpsters behind the cafeteria). You may then enter the pool area and watch the remaining heats.
12. Dress appropriately for (1) school, and (2) for pool. **Bring a towel!!!**
13. **You may invite people to attend and witness the event.**
14. **All students are expected to attend the boat regatta and represent their team and school in a positive way.**