

GRACEYOUTH

Cardboard Boat Competition 2020



HOW TO WIN

1. Decide on a design and sketch it out. It can be any size so let your imagination go wild!
2. Do the bottom of the boat first. We suggest two or three layers of cardboard glued together. Weigh it down while it sets.
3. Cut side pieces of the corrugated cardboard to ensure durability. Use the dull side of a knife when scoring to make a fold. This makes it easier to bend pieces into proper shape.
4. Glue/tape sides to bottom. Make sure to let the glue set.
5. Carefully cover any seams with duct tape. No “flex seal” type products.
6. Participants allowed in the boat are those who construct the boat.
7. Make sure your paddles are up to the task – they must also be made of cardboard. All boats and paddles must be built of corrugated cardboard

Your cardboard boat may be as thick as you want it to be, but it must only be cardboard, no metal screws can hold the boat together. NO wood, plastic, rubber, inflatable devices, Styrofoam, fiberglass or plastic are allowed.

(Corrugated Cardboard, Carpet Tubes, Cardboard Blocks can be found at recycling centers, appliance stores, department stores, discount clubs, electronics stores.)

The crew compartment CANNOT be enclosed so as to interfere with escape.

Pre-treated cardboard such as waxed cardboard is allowed.

No paint or varnish is allowed on the day of the contest, all paint & varnished cardboard must be cured prior to boat launch.

Boat must be able to hold Minimum of TWO crew members
Boats should weigh less than 200 lbs

Care should be taken that construction does not include pointed objects and sharp edges that could injure anyone or the pool.

Surfboard style designs are NOT allowed.

Decorations are allowed and encouraged provided they are not used as structural or floatation elements.

RECOMMENDATIONS

Consider the size of the boat - building & especially for transporting

Wider is better for stability, but still must be able to paddle

Cover all *edges* of cardboard -acts like siphon

Reinforce the area where you sit, kneel or stand

Carpenter's glue and liquid nails work well (hot-melt glues will melt in the heat and sun)

Duct tape only non-painted surfaces

Duct tape shrinks when painted

Duct tape should be covered with masking tape if you need to paint it

Clear tape melts when painted

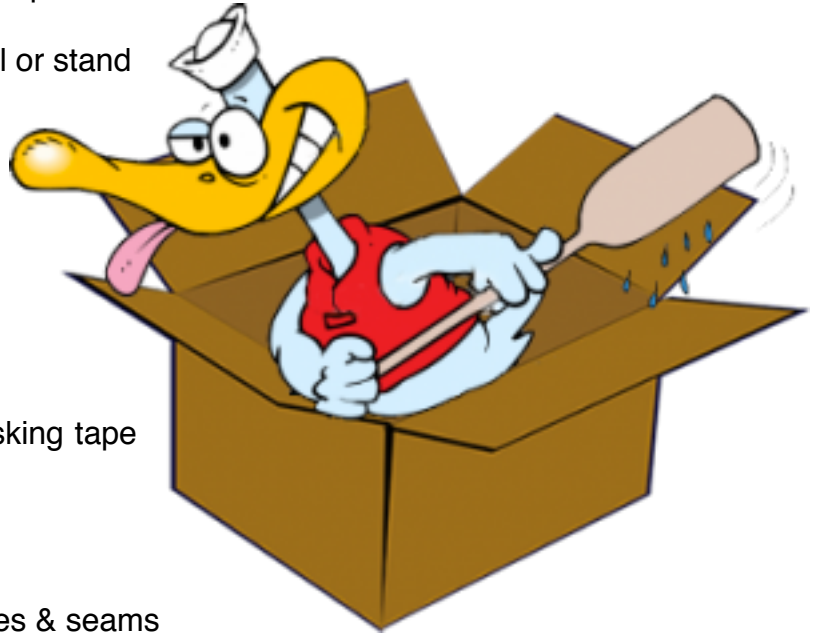
Masking tape works well on glued edges & seams

NO wrapping in duct tape, plastic or fiberglass or similar product

Duct tape may be used to reinforce seams

Adhesives such as 'liquid nails' 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.

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.)



PLEASE BE CAREFUL! DO NOT CUT YOURSELF! ASK PARENTS FOR HELP IF UNCERTAIN

Questions? Ask Aaron