**Cub Scout Pack 3944**

2019 Rain Gutter Recycle Regatta Guidelines

Race: December 7, 2019 3:00-5:30 p.m.
ISB 2nd Floor Gallery

The Rain Gutter Regatta is a boat race that is designed to be a den and/or parent-scout project. Please feel free to give guidance and minimal assistance to your Scout as he/she builds his/her Rain Gutter Regatta boat, appropriate to their age. These guidelines are written to help you keep it simple and fun for your scout, and to know what to expect when it comes time to race his boat.

* Cub Scouts must make their own boats, however parental help is welcome.
* No hands may touch the boat during the race.
* If the sailboat tips over, a judge will right the boat and place it in the exact spot it tipped over.
* The race is open to all Dens registered to Pack 3944.
* Each scout may enter only one boat in the competition.
* Boats that have competed in a previous regatta are not permitted.
* If a boat becomes damaged and can be repaired in a reasonable amount of time (2-3 minutes), the race will be run again. Added non-functional decorations that fall off during competition will NOT be reattached during racing.
* Scouts will race with other scouts from their same rank. Tigers will only race Tigers, etc. There will also be a Pack champion determined by a run off of the 1st place winners of each den.
* The race will involve two lengths of a rain gutter filled with water
* The race begins once the official starter has placed the competing boats against the back wall of the gutter and commands the scouts to "GO!"
* On the starter's command, the scouts will blow into the sail of their boat in order to advance them through the water. The boat can only be propelled by blowing into the sail. Once the race has started, the scout CANNOT touch his boat with his hands.
* If a scout's face, lips, hat, nose or other body part touches the boat, the boat must be returned, by the scout, to the starting position to continue racing.
* The first boat to cross the finish line is the winner of that heat. The finish line official will have the final and only say in determining the winner of that heat.
* Boats must be made from materials that would normally be tossed in the trash or recycled. Electric motors or pre-made boat parts, nor any other form of propulsion besides the sail or blowing air on it is allowed.
* **Total Boat Length: No longer than 7" (17.78 cm). The boat body CANNOT be wider than 3-1/2"(8.89 cm). The boat must remain a single hull boat. Multi-hull catamarans and boats with stabilizing out-riggers are not allowed. Any boat not meeting these requirements will be disqualified and not be allowed to enter the race.**
* Decorations such as sailors, cannons, etc. may be added. All such decorations must be firmly fastened to the boat, and may not be placed in such a manner as to change the boat dimensions as listed above.
* Each boat must pass a technical inspection and be registered before it may compete. Technical inspection and registration of boats begins 30 minutes before race time. Registration will end at exactly 2:30 pm. No latecomers will be registered for the race.
* Ungentlemanly or unsportsmanlike conduct by any participant or spectator will be grounds for expulsion from the competition and/or the race area.
* The most important values in Rain Gutter Regatta competition are parent/scout participation, good sportsmanship and learning how to follow rules.

Boat Assembly Tips – these are just tips, be creative

* Shaping the boat: Flatter bottoms are recommended, to maximize stability. A streamlined looking boat is almost always top heavy and capsizes.
* Keel & Rudder: Use epoxy or hot glue to install at the bottom of the hull. Make sure keel and rudder are not more than 1.5 inches (3.81 cm) or they will touch the bottom of the track and not be able to move.
* Mast: Point Install mast approx. 2 to 2-1/2" from bow (front of boat). Use epoxy or hot glue to install into place.
* Sail: Either glue the sail into it, or attach with masking tape or hot glue. Attach bottom of sail in a similar manner. The bottom edge of the sail needs to be about 1/2 inch above the deck of the boat. If the sail is too low, the corners of the sail rub against the gutter or dip in the water. If the sail is too high, the boat is top heavy and tends to tip over.
* Painting and other decorations: Sailboat may be painted and decorated how the scout wants, as long as it doesn’t violate the basic dimensions laid out for the body of the boat.

**Recycled Boat Material Ideas:**

**Hulls**: juice boxes, slabs of foam insulation, 8-ounce water bottles, 20-ounce soda bottles, Capri Sun pouches, Popsicle sticks (to create a raft design)

**Masts**: straws, skewers, small dowels, pencils

**Sails**: construction paper, index cards, cut-up cereal boxes, small chip bags, Capri Sun pouches

**Keel/Rudder:** Cut pieces of plastic or cardboard (juice box)