



Buoyancy Challenge

---Knott's Berry Farm's Physics Fun Day---



Objective:

Make a "boat" out of heavy duty aluminum foil that will float the most pennies without sinking.

Materials:

Each team will be furnished with one piece of heavy duty aluminum foil, approximately 10cm x 10cm, pennies, a rectangular tub with water, and paper towels. No other materials may be used for the contest.

Rules:

1. If your boat SINKS, this will disqualify your entry
2. Teams of 2 students can enter the contest to represent their school.
3. Each team may only compete one time.
4. No items, including adhesive, tape, glue, rubber bands, foam, etc may be added to the foil boats.
5. During the judging, the boat must float with the pennies for 5 seconds in order to qualify. The largest number of pennies floating at least 5 seconds will count as the team score. Boats that sink will be disqualified.
6. Attempts to circumvent the rules above will result in disqualification of the team.
7. Each team will be allowed a maximum of **2 minutes** to make their boat and to place their pennies into the boat.
8. Rulings of the judges are final

Winners:

- First Place, Second Place & Third place teams will win individual prizes for each team members