

Ping Pong Parachute

Description:

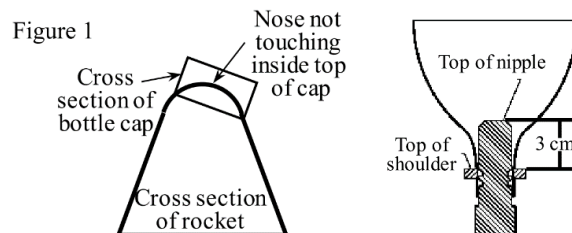
Each team will construct a rocket with a ping pong parachute that will be launched into the air using a compressed air rocket launcher.

Number of Participants: 2

Approximate Times: 20 minutes (20 minutes for competition students will come with final design)

The Competition:

1. Each team will bring **two** designs to be launched. Teams will not be able to make any adjustments and will need to be prepared to compete.
2. The goal is to keep the ping pong ball in the air as long as possible.
3. Teams will have two launches (they can launch the same rocket twice or each rocket once) and the longest time will be recorded.
4. The rocket must be made out of an unaltered 20oz carbonated soda bottle, paper, tape, string, and plastics that can be purchased at a basic grocery store. (No supermarkets like Walmart, Smith's Marketplace, Target, etc. because you can purchase a lot more at Walmart than you can at a basic grocery store.) **NO METAL OF ANY KIND.** Use of any other materials will disqualify the team.
5. The nose of the rocket must be blunt. When a bottle cap is placed on the nose no part of the rocket will touch the inside of the cap. The rocket will need to be placed on the top 3cm of the launcher.
6. The rocket launcher must be set to **60 PSI or lower.**



Scoring:

The 1st, 2nd, and 3rd place teams will be determined upon the amount of time the ping pong parachute stays in the air (flight time). Time will start when rocket is launched and will end when any part of the parachute or ping pong touch the ground.

Materials/Personnel Supplied by the District:

- 3+ judges
- Rocket Launcher
- Pressure gauge