



# Rockets 2006

## Hillsborough High School

### General Guidelines

- Each team (3-4 students) will produce a launch-able rocket made out of a 2-liter soda bottle.
- The rocket is propelled by hydro-pneumatic (water & air) energy only. You cannot use any other forms of energy (elastic, chemical, etc).
- You should bring in your own materials – I simply cannot supply 20-odd lab teams with supplies.
- It is *strongly* recommended to make at least **2-3** working rockets. Rockets are routinely damaged upon launch and landing and can be lost on the school roof or in a tree. Keeping a backup rocket or two will save you the trouble of having to start from scratch.
- No commercial rocket parts can be used – everything must be made.
- No metal or pointed objects allowed. Nothing inherently dangerous is allowed.
- You do not need to go out and spend a lot of money on supplies; this is a working list of suggested materials:
  - 3-4 2-L bottles (stay away from the green bottles, they do not always fit on our launcher)
  - Cereal boxes/cardboard for fins/ nosecone
  - Gluesticks/glue gun
  - Thin trashbags or dry cleaning bags for parachute
  - String
  - Tape (electrical and duct)
  - Hole punch
  - Sharp scissors
  - Utility knife (retractable razor blade)
  - Funnel
- Optional items
  - Posterboard/construction paper/perforated cardboard for fuselage
  - Thin wood (balsa)
  - Party hats
  - Baby Powder
- Your team will be tracked and graded based on your best (not necessarily your last) launch.
- Contest ends on or about June 12.
- Have fun – this is an exercise in frustration management.