Supervisors will record this information for each team & each team is encouraged to use this form as a pre-tournament Checklist! Supervisors can also record team results on the excel Bottle Rocket spreadsheet found at www.soinc.org

Team Number: B__ Team Name: ________________________________________________

Student Names: ___________________________________________ Final Score: ______

**Event and Construction Parameters (SAFETY CHECK)**

3.a: Parts from one rocket is not used on another rocket.

4.a: Rocket pressure vessel is made out of a single ≤ 1-liter plastic carbonated beverage bottle with a neck/nozzle opening internal diameter ~2.2 cm

4.a: Label for the bottle (can be removed) is presented at the safety inspection

4.b: Only tape is used to attach fins and other components to the pressure vessel. No glue of any type is used on the pressure vessel.

4.b: Does not use metal or commercial model rocket parts

4.c: Structural integrity of the pressure vessel is not altered

4.e: Rocket uses a blunt or round nose as described in the rules

4.f: Does not use explosives, gases other than air, chemical reaction, pyrotechnics, electric or electronic devices, elastic powered flight assists, throwing devices, remote controls, and tethers at any time

4.f: All energy at launch originates from the water/air pressure

4.g: Fins and other parts added to the bottle are ≥ 5cm above the level of the bottle’s opening

4.h: Rocket does not change shape nor deploy any type of recovery system

**DOES THIS ROCKET PASS SAFETY CHECK (IF N, DO NOT LAUNCH)**

1. Y N 6. Y N

**Competition Parameters**

5.b: Rockets launched at 60 psi

5.c: No parts of the rocket fall off or become separated during launch and flight

**IS THIS ROCKET FREE OF ANY COMPETITION VIOLATIONS (IF N, TIER 2)**

2. Y N 7. Y N

**Score** 5.d.

Timer 1 (in seconds to the nearest 0.01 second)

3. _______ 8. _______

Timer 2 (in seconds to the nearest 0.01 second)

4. _______ 9. _______

Timer 3 (in seconds to the nearest 0.01 second)

5. _______ 10. _______

Disqualified (notify the team and their coach as soon as possible)

11. Y N

Pick One: Tier 1: Any launch without Construction or Competition violations)

Tier 2: Any launch with any Competition Violations)

Tier P (Participation Pts.): Any launch with Constr./Safety Violations)

Tier _______ Tier _______

- RANKING WITHIN EACH TIER IS DETERMINED BY THE COMBINED GREATEST TIME ALOFT OF BOTH ROCKET FLIGHTS. IF A TEAM ONLY Launches ONE ROCKET THEN THAT TEAM WILL RECEIVE ONLY THE FLIGHT TIME FOR THAT LAUNCH. TEAMS WITH A TIER 1 ROCKET AND A ROCKET WITH A VIOLATION ARE SCORED AS IF THEY HAD ONLY ONE ROCKET
- TIES ARE BROKEN BY THE GREATEST TIME A LOT BY A SINGLE ROCKET