

Bottle Rocket Event Self Check

It's your responsibility to comply with the rules. *Once you start check-in you will not have an opportunity to fix a rocket that does not meet specifications.*

If in doubt, check it out, now!

Your rocket violates the rules if the answer to any of the questions below is YES

1. Does the rocket use other than a 2-liter carbonated beverage bottle for the pressure chamber? (Non-carbonated water bottles such as "Smart Water" are not allowed.)
2. Is the inside diameter of the nozzle larger than approximately 22 mm? (1/2 inch piece of schedule 40 PVC should just pass through opening)
3. Has the label been removed from the bottle used for the rocket's pressure chamber? (If so, you must bring an identical bottle with the label intact.)
4. Has an extender been used to increase the volume of the bottle?
5. Have any commercial model rocket parts been used on the rocket? (example: Estes parachutes, Estes helicopter recovery parts)
6. Is the required team identification missing? (The event supervisor must be able to easily identify which team it belongs to. e.g. Division, team number, and school name)
7. Has the structural integrity of the bottle been altered? (example: sanding the bottle, or glues that damage the bottle)
8. Is there metal touching the pressure vessel. (bottle)
9. Does the rocket have any sharp or pointed metal objects?
10. Does the rocket have a leading surface consisting of a rigid spike?
11. Is the total mass of the rocket and recovery device greater than 400g?
12. Is the longest possible extended length of the rocket and its components more than 2 meters?
13. Is any energy other than that provided by the air/water in the pressure chamber used to propel the rocket?
14. Does the rocket use remote control, pyrotechnics, or pressurized gas (other than the air in the pressure chamber)?
15. Does the rocket's recovery device use aerodynamic surfaces made of non-rigid material that is not stretched tight on a rigid perimeter?
16. Do the fins or other parts added to the bottle lower than the flange on the bottle neck?
17. Do the fins or other parts, closer than the bottle's radius to the centerline of the rocket, extend to less than 2 cm above the flange on the bottle's neck?