

Science Olympiad 2016 – Elastic Launch Glider B

Supervisors will record this information for each team and each team is encouraged to use this form as a **pre-tournament Checklist!**

Supervisors can also record team results on the Elastic Launched Glider spreadsheet found at www.soinc.org

Team Number: B____ Team Name: _____

Student Names: _____ Final Score: _____

Construction Parameters (Up to 2 gliders)

	Glider 1		Glider 2	
3.a. Components with pre-glued joints or pre-covered surfaces are not used.	Y	N	Y	N
3.b. Glider constructed only from wood, foam, paper, plastic film, carbon fiber, tape, thread and/or glue. Ballast, if any, is made of malleable, non-metallic substance.	Y	N	Y	N
3.c. Mass of the glider throughout the flight > 3.5 g and < 10.0 g.	Y	N	Y	N
3.d. Wingspan ≤ 30.0 cm and length of glider ≥ 32.0 cm at all times.	Y	N	Y	N
3.e. The blunt nose of the fuselage, when inserted into a lip balm cap with inside dimensions of ~1.57 cm deep and ~1.37 cm wide does not touch the end.	Y	N	Y	N
3.f. Launch apparatus(s), excluding elastic, is <1 m long in any orientation at launch, and is of a safe configuration. The elastic used in the launch apparatus is non-metallic and is in contact with the glider throughout the launch.	Y	N	Y	N
3.g. Glider is labeled so the Event Supervisor can easily identify the team to which it belongs.	Y	N	Y	N

ARE ALL CONSTRUCTION PARAMETERS FOR THIS GLIDER MET?

1. Y N

2. Y N

(IF N, TIER 2)

Others

4.c. Is the flight log complete, incomplete, or not present? (Circle one) Complete means including 4 or more parameters (including estimated/recorded peak flight height after launch, approximate length of elastic, and Flight Time) for at least 10 test flights prior to the competition.	3. complete incomplete none
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Participation Points Only (i.e. Device cannot be judged) 4. Y N

General Rule: Disqualified (notify the team and their coach as soon as possible) 5. Y N

Flight	Which glider is used for this flight?	Is this flight free of Comp. Violations*?	Flight Time (to the precision of the timing device)		
1	6. 1 or 2	7. Y N	8. _____ sec	9. _____ sec	10. _____ sec
2	11. 1 or 2	12. Y N	13. _____ sec	14. _____ sec	15. _____ sec
3	16. 1 or 2	17. Y N	18. _____ sec	19. _____ sec	20. _____ sec
4	21. 1 or 2	22. Y N	23. _____ sec	24. _____ sec	25. _____ sec
5	26. 1 or 2	27. Y N	28. _____ sec	29. _____ sec	30. _____ sec

***Note:** A flight is free of competition violations if all of the following are met for the flight:

- 4.a. Once competitors enter the cordoned off competition area to trim, practice, or compete, they do not receive outside assistance, materials, or communication.
- 4.h. Glider is launched from a launch apparatus by a single competitor who has direct contact with the floor and one hand holding the apparatus.
- 4.i. Glider is only launched while aimed at the ceiling (not the walls, spectators, low obstructions, etc.)
- 4.n. Competitors do not steer the glider during flight.