



PLANE BUILDING COMPETITION WITH PRIZE MONEY TO THE SCHOOL THAT WINS

2024 Ventura County Aviation Career Day

For more info contact: careerday@vc99s.org

MAKE GARBAGE FLY

Objective: Design and build a glider that performs at least one 360° roll while gliding a long distance. We are looking for entries that are created from scratch and use aerodynamic principles. Entries will either be in the School Team Category or Individual Category.

Must complete the entry form and bring to the event with your glider when you check in. Entry forms and pictures from prior years can be found here: <https://www.facebook.com/vcaviationcareerday/>

To qualify the aircraft must have:

1. Fuselage
2. Wings
3. Stabilizers (hint: important for stability so your glider flies straight)

Items Not Permitted:

1. Anything excessively sharp, pointed or hazardous when thrown.
2. Objects that are already designed to fly (ex: ball, Frisbee, model aircraft etc)
3. Re-used entry from a previous year's competition

If you choose to include flight controls (ailerons, rudder, elevator, flaps, slats, spoilers, and trim tabs), you may do so, but these parts must provide a specific control function for your airplane that you will be required to explain to the inspector. These are gliders and must be hand tossed to fly, therefore no propulsion or remote control devices allowed. The 360° roll must be around the longitudinal axis of the airplane, either left or right, while the airplane is traveling forward. Remember you want your glider to roll not turn. The roll must be accomplished using aerodynamic principles. Entries that do not have the minimum components or are deemed too dangerous or are not in the spirit of the competition will be disqualified. Gliders must land within the landing zone. Distance will be measured at 1st touchdown point. NOTE: All entries are subject to disqualification by the judges.

Materials

This is the fun part. You may only use trash or recyclables. (Students in the past have used shoe boxes, paper towel rolls, and soda bottles, for example). You may use tape, staples, glue, or other fasteners of your choice. These do not have to be discarded items and may come from the store. However, they must be used only to FASTEN parts together; aircraft components may not be fashioned from the fasteners. For example, do not build or strengthen a wing with duct tape. Sharp or hazardous items will be disqualified.

Size

The length of the aircraft must be at least 15 inches and the wingspan must be at least 10 inches.

Fly Off to be held on Friday, October 18, 2024 at Ventura County Aviation Career Day

The longest single flight which includes a minimum of a 360° roll of the competitive trials will be declared the winner in each category. No penalty will be assessed if the aircraft rolls more than 360°, and the aircraft does not have to land "right-side-up", however it does have to land in the designated competition area. Distances will be measured in feet and inches at 1st touchdown point. In the event of a tie for the longest distance, each of those students will be given one more toss. The longest of the "playoff" flights, which also meets the roll criteria, wins.

Prizes	1 st Place	2 nd Place	3 rd Place
School Team or School Aviation Club	\$400	\$200	\$100
Individual	\$100	\$75	\$50



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Entry
Number

Registration Form - Complete and bring to Career Day with your glider

Check in at the Make Garbage Fly registration table when you arrive.

Each entry is either TEAM (2 or more students) or Individual (1 student).

Only one (1) glider and one (1) form per entry.

If you are a TEAM Entry complete this:



TEAM ENTRY	
School	
Teacher / Advisor	
Team Member Names	
1	
2	
3	
4	
5	

If you are an INDIVIDUAL Entry complete this



INDIVIDUAL ENTRY	
School	
Teacher / Advisor	
Student Entrant Name	
1	

If you win, what will the prize money will be used for? (Has no impact on qualification or judging)

Qualifications (to be completed by the judges)

Component	Meets Criteria	Comments
All Recycled Materials Used?		
Anything Hazardous?		
Fuselage (length $\geq 15''$)		
Wings (Wingspan $\geq 10''$)		
Stabilizers		
Flight Controls (optional)		
Qualified?	YES NO	

Competition (to be completed by the judges)

Fly-Off	360 Degree Roll?	YES	NO	Distance	
Tie Breaker	360 Degree Roll?	YES	NO	Distance	
Place					