

THE AMERICAN ROCKETRY CHALLENGE 2022 QUALIFYING/SELECTION FLIGHT DEMONSTRATION

TEAM'S SCHOOL/ORGANIZATION: Explorer Post 1010 Team 2

AIA TEAM NUMBER: 1139 ADULT ADVISOR: Robert Ekman

DATE OF THIS FLIGHT: 4/3/2022 QUALIFICATION ATTEMPT # (Circle) 1 2 **(3)**

MINIMUM FLIGHT REQUIREMENTS (ALL MUST BE CIRCLED "YES" OR THE FLIGHT IS DQ)

- Did this rocket weigh less than 650 gm at takeoff, with eggs and motors, was it 650mm or more long, and did it use two body tubes of different diameters, each at least 6 inches long? **YES** / NO
- Did all parts of the rocket remain connected together throughout the entire flight? **YES** / NO
- Did it use motors from the TARC approved list containing a total of no more than 80 N-sec total impulse? **YES** / NO
- Did it contain two Grade A large, raw hen's eggs, mounted sideways, and a TARC-approved altimeter? **YES** / NO
- Did this rocket make a safe flight and recovery under the TARC 2022 rules & NAR Safety Code? **YES** / NO
- Did the rocket land without any human intervention? **YES** / NO
- Did the eggs carried by the rocket both remain uncracked after the flight? **YES** / NO

SCORING

TIMER # 1 (NAR OBSERVER):	<u>45</u> . <u>31</u>		EXCESS ABOVE 44.00 SEC:	<u>1.394</u>	
	SEC HUNDREDTHS				
			MULTIPLY EXCESS BY 4:	<u>5.586</u>	
TIMER # 2 (OTHER ADULT):	<u>45</u> . <u>49</u>	OR	SHORTFALL BELOW 41.00 SEC:	<u> </u>	+
	SEC HUNDREDTHS				
			MULTIPLY SHORTFALL BY 4:	<u> </u>	+
AVERAGE TIME:	<u>45</u> . <u>394</u>		DIFFERENCE FROM 835 FEET:	<u>41</u>	+
	SEC HUNDREDTHS			(NO NEGATIVES)	
ALTIMETER ALTITUDE:	<u>876</u>	FEET			+
			FINAL SCORE (SUM)	<u>46.6</u>	
			Put <u>only</u> "DQ" if any answers above are "no"		

SUPERVISING TEACHER/ADULT CERTIFICATION

I certify that the student members of this team designed, built, and flew this rocket without my assistance and, to the best of my knowledge, without the assistance of any other adult or any person not on the team. I also certify that no more than the allowed number of official qualification flight attempts were made by this team, and that the team information on file at AIA is current. I understand that team membership can no longer be changed and only team members on file at AIA with valid parent consent forms are eligible to receive prizes.

SIGNATURE: Robert Ekman PRINT NAME: Robert Ekman

ADULT N.A.R. MEMBER OBSERVER CERTIFICATION

I certify that I am a Senior NAR member who personally observed this flight, and the above initials and scores are mine, based on my observations. I certify that I am not related to any team members or affiliated with their school or non-profit organization, that this flight was conducted in compliance with the rules of the TARC competition, and that this flight was declared to me to be an official qualification flight before its liftoff.

SIGNATURE: James Miers PRINT NAME: James Miers PHONE: (202) 215-2162

NAR NUMBER: 60876 CITY, STATE: Greenbelt MD EMAIL: miers.jc@gmail.com

**SUBMIT USING ONLINE PORTAL AT PORTAL.ROCKETCONTEST.ORG (Successful flights only)
OR E-MAIL SCANNED COPY TO QualificationFlights@aia-aerospace.org**

NO LATER THAN MIDNIGHT (EST) APRIL 4, 2022****

Team sends in form if flight successful, NAR observer sends in form for unsuccessful flights.