

Syracuse Rocket Club

August 24, 2019

Drag Race Competition

1. Drag Race Competition must use a single stage rocket. The purpose of this competition is to determine which entry is most successful at meeting the triple criteria of quick ignition and lift-off, low altitude, and long duration.
2. The event is a series of flyoffs (heats) between pairs of entries. The winner of each heat flies against the winner of another heat until the overall winner is determined. An additional flyoff between the losers of the semifinal rounds is to be made to determine third and fourth places.
3. No substitution of models is permitted during the course of this event.
4. The competitors for each flyoff will be chosen by lot.
5. The models will be launched through a common ignition switch operated by the Launch Control Officer.
6. An entry that does not fly successfully shall be disqualified.
7. A model that does not achieve first motion before T+2 seconds shall be disqualified.
8. Drag Race Competition shall be scored as follows: the winner of each heat shall be that entry which receives the higher number of points according to the following schedule:
 - a. One point for the first entry to achieve first motion;
 - b. One point for the entry achieving the lower altitude; and
 - c. One point for the entry that touches the ground last.
9. The entire rocket must return to the ground safely with all parts connected together.
10. The winner of the last heat shall be declared the winner. The loser of the last heat shall receive second place. There shall be a flyoff for third and fourth places between the losers of the semifinal heats.

B Streamer Duration Contest

1. The contestant whose rocket achieves the longest duration for a single flight is the winner. Duration is timed from the time of rocket liftoff to the time that the rocket touches the ground or goes out of sight of the timers.
2. Up to two official flights may be flown by each contestant.
3. The model must return as one unit and may not separate into multiple pieces for recovery. Separation will result in disqualification. Minor repairable damage such as cracked fins or a body tube zipper will not cause disqualification. Complete separation

of nose cone, shock cord, recovery streamer, or fins will result in disqualification. Motor ejection will result in disqualification.

4. The recovery device must be one or more streamers.
5. Motor impulse may not exceed a single B (5.0 Newton-seconds).