

Syracuse Rocket Club

May 19, 2018

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 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.

A-Impulse Parachute Spot Landing

1. The winner will be the contestant whose rocket lands closest to a target point on the ground set by the contest officials. This will be measured as the distance between the tip of the nose cone (or motor nozzle if the model has no nose cone) and the target point.
2. The entire rocket must return to the ground safely with all parts connected together using a parachute as its sole recovery system. The parachute does not need to fully inflate in order for a flight to be qualified, but it must come out of the rocket body and cannot be deliberately packed in such a way that it cannot inflate.

3. Up to two official flights may be flown by each contestant. The contestant's score will be the best single score from one of the two flights.
4. Different model rockets may be used for each qualification flight.
5. A flight must be declared as a contest flight before the flight begins by so indicating on the flight card.
6. The motor used must be an A or higher impulse motor.