

# Syracuse Rocket Club

October 15, 2016

## Random Duration Contest

1. The Target Duration will be selected by randomly rolling a die just prior to when the event is flown. The Target Duration shall be a multiple of 5 seconds between 30 and 55 seconds (Die roll of 1 = 30 seconds, 6 = 55 seconds). All contestants shall attempt to achieve this same Target Duration.
2. The model must return as one unit and may not separate into multiple pieces for recovery. Separation of any major components will result in disqualification.
3. Number of Flights - Contestants shall be allowed only one official flight in the Duration Contest. In the case of both timers malfunctioning, or catastrophic motor malfunction, a reflight will be allowed by the same model, with no changes in rocket configuration, recovery device configuration, or motor type.
4. Control - The entry may not be radio controlled. The entry shall not contain a dethermalizer or other device whose purpose is to cause the model to land after a predetermined amount of elapsed time. No human intervention (e.g., catching the model) shall be allowed between launch and touchdown. If the model is not allowed to land naturally, the entry shall be disqualified.
5. Scoring - Duration Competition shall be scored as follows: the achieved duration of the model shall be divided by the target duration, and the result multiplied by 100. This figure shall then be rounded to the nearest 0.1%. If the result is greater than or equal to 100, subtract 100 from it; otherwise, subtract it from 100. The contestant whose score comes closest to zero shall be declared the winner.
6. The model is not required to be returned to the officials for scoring.

## B Streamer Spot Landing

1. The winner will be the contestant whose nose cone lands closest to a target point on the ground set by the contest officials.

2. The rocket must use a streamer recovery system.
3. The rocket must return to the ground in one piece. Separation of the nosecone, streamer or body tube from one another will result in disqualification of that flight.
4. Up to three official flights may be flown by each contestant. The contestant's score will be the best single score from one of the three flights.
5. Different model rockets may be used for each qualification flight.
6. A flight must be declared as a contest flight before the flight begins by so indicating on the flight card.
7. The motor used must each be a B or higher impulse motor.