



Rules & Regulations for National Olympics 2010 - 9th January 2011

The 2010 JetToy Olympics offers teams an opportunity to engage in a friendly competition with students from other classrooms using SAE International's – *A World In Motion*[®] JetToy program.

Materials & Vehicle Specifications:

1. JetToy vehicles in the competition must be constructed on site the day of the event using only materials supplied in an official AWIM JetToy kit. All materials will be readily available on site for Student – design - team - use.
2. Teams may build multiple JetToy vehicles to use in different events.
3. Design teams can use only one balloon motor per vehicle.
4. Different nozzle sizes can be used for different events.
5. No propulsion system besides the JetToy balloons and nozzles may be used.
6. The concept vehicle size should not be larger than 12" x 20" x 12" (WxLxH)

Race Lanes:

1. Student Design Teams will be assigned a race lane. All of their competition will be performed on their assigned race lane only.
2. There will be 08 race lanes and each lane will have the necessary markings for judges to determine points earned for each event.
3. The race lane will be 10 meters in length by 3 meters wide. For all events, points will be awarded after the vehicle comes to a stop with the position of 50%+ of the vehicle marking the point the vehicle has traveled except for the speed event where the time will be noted at the 3m mark. For the speed event if the vehicle does not cross 3m mark the attempt will be declared invalid.
4. If a vehicle leaves the confines of the lane points will be awarded at the location of exit.
5. Teams will be given three attempts during the competitions. Please refer to **JetToy Olympics – Track Description & Scoring Guide** for specific event scoring details.

Conduct of the Competition :

1. Points can be achieved in 5 different events. Performance events include speed, distance, weight-carrying ability, accuracy, and longest travelling time.
2. Maximum balloon inflation for any event will be a diameter of 8 inches.
3. Weights for the weight-carrying ability event will consist of 3 washers which are provided in AWIM KIT stacked & taped in a cylindrical arrangement and should be fastened securely in the vehicle.
4. Teams will compete to acquire the highest number of total points.
5. Only Test Engineer (2 nos) will be permitted at the starting line; one to operate the pump and the other to hold and launch the vehicle.

All teams will be given a specific amount of time to complete their 3 attempts per event. Any trials that are not finished during the allotted time will be forfeited.