



## **JetToy Olympics**

### **Track Description & Scoring Guide**

# JetToy Olympics - Track Descriptions & Scoring Guide



## Distance

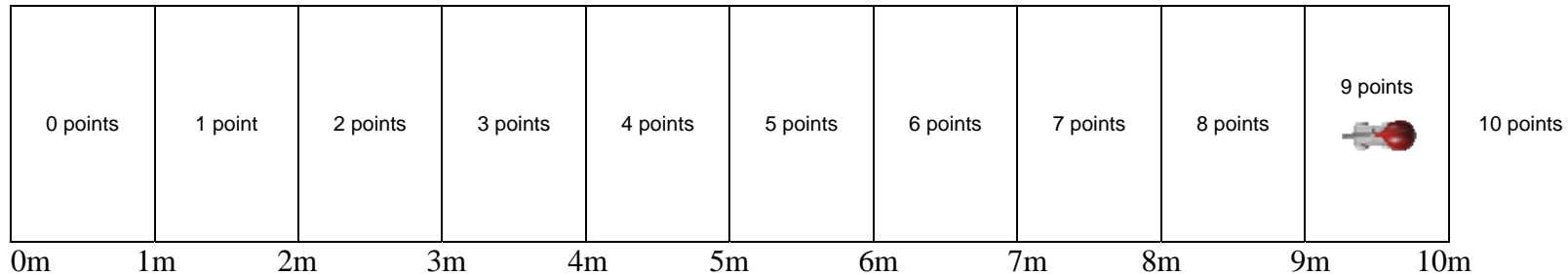
**Objective:** Student design teams will construct a JetToy car that can travel as far as possible.

- Track Specs 10m long x 3m wide
- Teams must release JetToy behind the 0m mark
- JetToy must stay on track for trial to be valid (if JetToy leaves the track, points are rewarded at point of exit)
- JetToy balloon must be inflated to an 8 inch diameter or less – Judge will check diameter before JetToy is released.

### Scoring

- Design teams get three trials.
- Final score is based on sum of the 3 trials.
- Point total is awarded by judge determining the scoring box and adding the total cm travel in the point box.
- Measurements are taken from the furthest point of travel.

### Distance Track



The JetToy stopped 83 cm beyond the 9m line; the point value for this trial is 9.53.

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## Weight

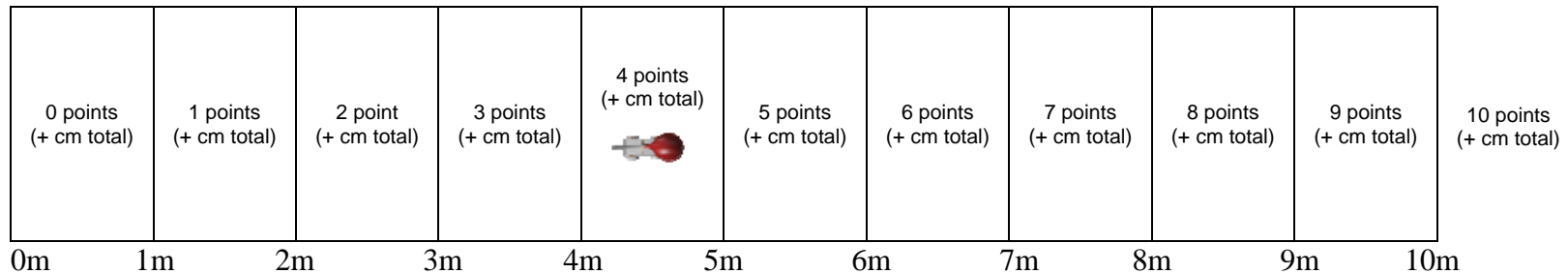
**Objective:** Student design teams will construct a JetToy car that can carry a specific amount of weight.

- Track Specs 10m long x 3m wide
- Teams must release JetToy behind the 0m mark
- JetToy must stay on track for trial to be valid (if JetToy leaves the track, points are rewarded at point of exit)
- JetToy balloon must be inflated to an 8 inch diameter or less – Judge will check diameter before JetToy is released.
- 1 weight = 9 pennies in pack– must use weights provided by judges at starting line

## Scoring

- Design teams get three trials.
- Final score is based on sum of the 3 trials.
- Point total is awarded by judge determining the scoring box and adding the total cm travel in the point box
- Measurements are taken from the furthest point of travel

The JetToy stopped 63 cm beyond the 4m line; the point value for this trial is 4.63



# JetToy Olympics - Track Descriptions & Scoring Guide



## Accuracy


**Objective:** Student design teams will construct a JetToy car that can travel a specific distance.

- Track Specs 10m long x 3m wide
- Teams must release JetToy behind the 0m mark
- JetToy must stay on track for trial to be valid (if JetToy leaves the track, points are rewarded at point of exit)
- JetToy balloon can be inflated to any diameter determined by the design team

### Scoring

- Design teams get three trials.
- Final score is based on sum of the 3 trials.
- Point total is awarded by judge determining the scoring box and adding the total cm traveled from the corner or line furthest away from the target; if vehicle lands in target square the points are determined by square where 50% + of vehicle stops - target square begins at 9.1 points; increases by a tenth of a point each 5 cm to center of target at 10 points; decreases by tenths beyond center.

### Accuracy Track

0 points	1 point	3 points	5 points	7 points	8 points	7 points	5 points	3 points	1 point	
0 points	2 points	4 points	6 points	 8 points	Target	8 points	6 points	4 points	2 points	
0 points	1 point	3 points	5 points	7 points	8 points	7 points	5 points	3 points	1 point	
0m	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m



The JetToy stopped 57 cm beyond the 4m line; the point value for this trial is 8.57.

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## Time

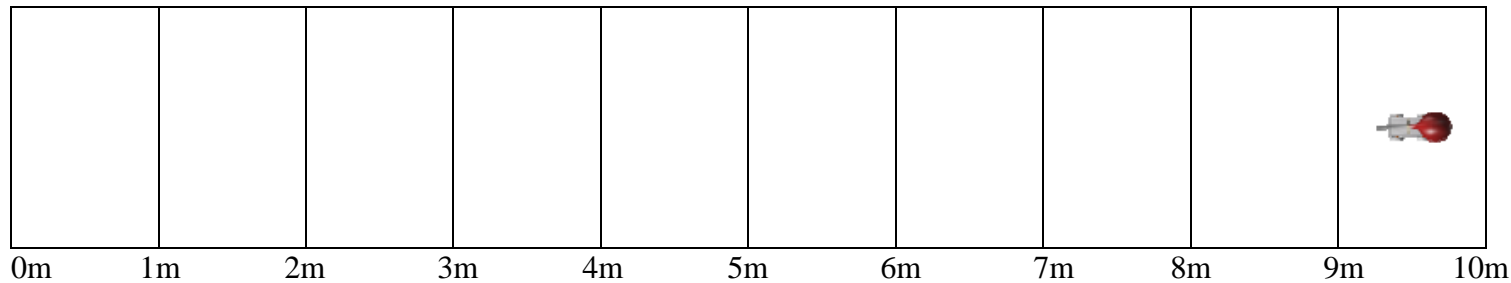
**Objective:** Student design teams will construct a JetToy car that can travel for an extended period of time.

- Track Specs 10m long x 3m wide
- Teams must release JetToy behind the 0m mark
- JetToy must stay on track for trial to be valid (or exit track past 10m mark)
- JetToy balloon must be inflated to an 8 inch diameter or less – Judge will check diameter before JetToy is released.
- Track judge will time the teams' trials using a stopwatch
  - Time starts when nozzle is released
  - Time stops when JetToy forward momentum stops (JetToy can not stop and start.)

### Scoring

- Design teams get three trials.
- Final score is based on the longest elapsed time (best) of the three trials.

### Time Track



The JetToy stopped moving after 32.34 seconds. The point value for this trial is 32.34.