



Drag Racing

Official 2018 Rules and Participant Guidelines

Level: Beginner
Grade: 4th and 5th
Number of Robots: 1 per participant
Time Limit: 1 minute maximum
Robot Weight: Any
Robot Dimensions: Any
Robot Control: Autonomous
Number of robots competing per round: Two
Controllers: One
Number of Motors: Maximum of Two
Competition: Single elimination; NXT/EV3 division and RCX division (separate competitions for NXT/EV3 and RCX)

Summary: As in all good drag races the objective of this event is to beat your opponent to the finish line and come to a full stop.

Event Rules:

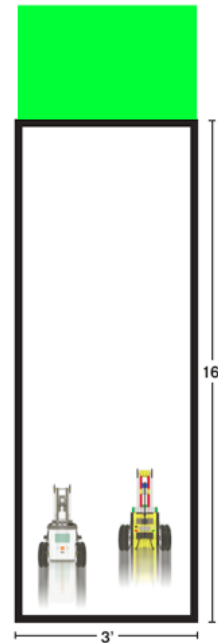
All participants line up with approximately 1" of their robots extending over the starting line. [Note: If your light sensor is not over the line when your robot starts your program needs to account for passing over the starting line.]

1. Once a robot starts the course, it must remain autonomous or be disqualified.
2. A robot that wanders off the race course will be disqualified.
3. A robot must be programmed to wait 5 seconds after the "RUN" button is pressed before moving down the course.
4. Any robot not waiting the five seconds will be given a "false start". Each robot is granted one "false start" per round. If the robot false starts twice it is disqualified.
5. If the robot must be reprogrammed for any reason it is disqualified.
6. A robot is not allowed to increase its length during the race.
7. Robots must stop after they cross the finish line. Robots who do not stop within 3 feet after the finish line, forfeit the heat. A robot can perform an action to celebrate its finish (play a song, turn on a light, reverse, do a little dance...").

Scoring:

The first robot to cross the finish line and come to an autonomous stop within three (3') feet of the finish line as shown below wins. *Note: It is permissible to go beyond the 3' as long as the robot comes to a complete stop inside of the green finish area.*

Playing field: 3' wide X 16' long white track (butcher paper), with a 1" black electrician's tape line traversing the width at the beginning and end to mark the start and finish line.



Finish Area Details-

The 3'X 3' finish area will be colored green. Drag racers must be completely stopped in the green area as shown below to win. Any part of the stopped Drag Racer not in the green finish area disqualifies the racer.

