

Open Floor Exercise

Level: Beginner

Number of robots: Unlimited

Time Limit: 2 minutes maximum per round

Robot Weight: Any

Robot Dimensions: Any

Robot Control: Autonomous

Scoring: Highest point total

Summary:

A robot or team of robots performs a series of actions based on a script designed by the students.

A team may pick any number of robot actions as part of their script to a maximum of 10 total. Example robot actions might be: Go Forward, Turn around 3 times, Throw a ball, Play a song, Lift the do-hickey” etc. There is no limit or restriction to the order and selection of the actions. The only requirement is that the robot follows the planned script.

A theme (The Olympics, Robot Zoo, Robots in Space) is used to flavor the event (check with your teacher or event organizer for details). A point bonus can be added to a participant’s score for creating a routine or story that adheres to the theme. Props of any material LEGO or otherwise are encouraged to help decorate the playing area for the purpose of explaining how the routine relates to the theme. All props must fit entirely within the 6’ play area.

Participants are also encouraged to decorate their robot to enhance the fun.

Event Rules:

1. A maximum of 2 minutes is allowed to complete the script. If a robot has not completed the script in the time allowed, it will not be disqualified but it will no longer be entitled to acquire points. The bonus points will be given only once for the first 8 tasks achieved.
2. The team may pick up its robot a limit of 2 times without a penalty.

Scoring:

Accomplishment

Each task successfully completed in the order a task appears on the team’s script.

Robot accomplishes 8 unique tasks according to plan.

Use of LEGO to express the theme.

The team conducts the challenge according to a theme. (i.e. amusement park, historical event, geographic site)

Pickup penalty

Points

10 pts

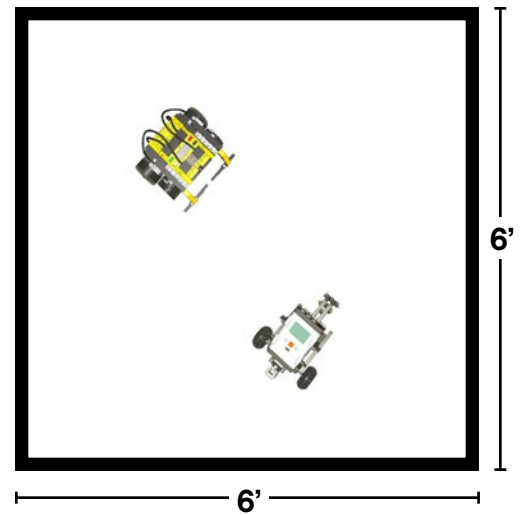
10 bonus pts

0 - 20 bonus pts

0 - 50 bonus pts

- 5 pts

Playing field: 6’ square taped off.



For sample robots and programs visit:
<http://www.LEGOedwest.com>

