



Free Form

Official 2012 Rules and Participant Guidelines

Level: Beginner & Advanced
Number of robots: Unlimited
Time Limit: 2 minutes maximum per round
Robot Weight: Any
Robot Dimensions: Any
Robot Control: Autonomous
Scoring: Highest point total
Controllers: No limitation
Number of Motors: No limitation
Competition: NXT and RCX compete together; beginner and advanced levels (contestants state what event they are entering on registration form).

Summary:

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

A team may pick up to 10 actions for their script. 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 is used to flavor the event. This year’s theme is the *2012 Olympics*. Bonus points 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 able to acquire points. The bonus points will be given only once for the first 8 tasks achieved.
2. The team may pick up their robot a limit of 2 times without a penalty.

Advanced Level Competition:

Participants who wish to engage in advanced level free form competition will incorporate the use of at least two robots in their entry. The two+ robots will need to express the “2012 Olympics” theme through their routines and actions.

Scoring:

Accomplishment	Points
Each task successfully completed in the order a task appears on the team’s script.	10 pts
Robot accomplishes 8 unique tasks according to plan.	10 bonus pts
Use of LEGO to express the theme.	0 - 20 bonus pts
The team conducts the challenge according to the theme (props, music, costumes, etc)	0 - 50 bonus pts
Pickup penalty (first two free)	- 5 pts

Playing field: 6’ square taped off.

