

LEGO Sumo Instruction and Competition

Overview

Children ages 9-14 in this 3-hour class or camp will experience a fun and exciting introduction to robotics with our LEGO sumo activity. Participants will divide into teams to design, build, program, and battle their robots in a friendly competition where the goal is for each robot to move like a self-driving car as it tries to push its competitor out of a ring.

No building or programming experience required. Using LEGO parts and drag-and-drop Mindstorms programming, teams will be amazed at how quickly they are ready to rumble.

This activity is facilitated by a team of middle and high school students who have won awards for their robot design, teamwork, and outreach skills!

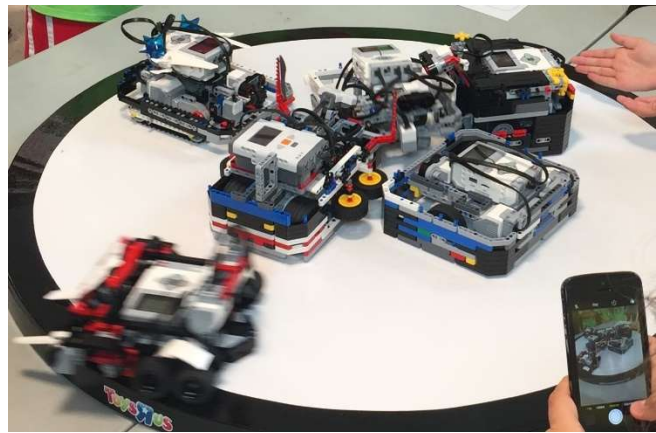
Agenda

- Introduction to the activity
- Divide into teams
- Teams build and refine sumo robots
- Programming overview and instructions
- Head-to-head sumo robot competition
- Wrap up and awards

Donation includes:

- Rental of up to 6 LEGO Mindstorms NXT kits
- Use of 2 PCs with Mindstorms programming software
- Setup of our 40-inch sumo arena
- 3 trophies
- Instruction and competition event by FIRST robotics team
- Facilitator instructions to the Sumo BrickBots competition rules

Tax-deductible donations to the IncrediKids Foundation support a FIRST robotics team.



Quick Facts

Group Size

Ideal for groups of 4 to 25 people who can be split into teams of 2 to 4

Program Length

3 hours

Space Requirement

Large classroom with enough room for teams to work independently

Program Elements

- Friendly competition
- Introduction to robot building and programming
- Fun and engaging interaction