

ROBOTICS



OBJECTIVES

This fair competition is designed to provide club members enrolled in 4-H Robotics an opportunity to demonstrate their knowledge of:

- Robot/computer programming
- Robot design to accomplish tasks (e.g. use of gears, levers, etc.)
- Sensors used within computer program to complete tasks
- Strategies to solve problems

using Lego Mindstorms software and hardware.

RULES AND REQUIREMENTS FOR COMPETITION AT THE FAIR

1. 4-H members must be registered in the robotics club by January 1st.
2. All members must give a club, county or state 4-H presentation, attend 70% of regular club meetings, complete a project record book, and be a member in good standing.
3. Two copies of a completed 4-H Event Permission Form and Behavior Agreement (one sheet, front and back) must be handed in to leader.

RULES AND REQUIREMENTS FOR PARTICIPATION AT THE FAIR

1. All members work towards completing their projects for display and/or demonstration at the fair.
2. All exhibits must be the result of the club member's own efforts.
3. All robots in competition or display must be tagged with the member's name and club.

CLASSES

Competitions will be held for the following classes:

Junior	- New members with less than three years of experience in the construction and programming of Lego Mindstorms robots. - 1 st and 2 nd place winners of the junior class from last years fair are not eligible to participate in the junior class for this years fair.
Senior	- Members with 3 or more years of experience with Lego Mindstorms robots. - 1 st and 2 nd place winners of the Junior division competition at last years fair, regardless of the number of years of experience.
Open	- Any current or former club member may participate. - Any current or former club leader may participate. - Any students who have put in volunteer hours assisting with the Junior and/or Senior matches.
A member may be placed in a different class at the discretion of the leader.	

AWARDS

Danish ribbons and rosettes will be awarded.