



## 4-H ROBOTIC CONTEST

CLOVERS, JUNIOR, INTERMEDIATES, AND SENIORS

Monday, August 8th – 5:00 P.M.

Premiums: 5.00 4.00 3.00 2.00  
Clover 5.00 participation premium only

**Contest is open to all Clovers and 4-Her's carrying the Robotic project.**

1. All rules from 4-H Department Rules apply.
2. Clovers will be asked to assemble a LEGO WeDo project of their choice from the WeDo manuals. Juniors, Intermediates, and Seniors will assemble and program LEGO MINDSTORMS NXT robots to complete simple, moderate, and complex challenges, respectively. There will be a time component in the calculation of a final score at all levels.
3. A full description and more complete rules for each NXT challenge will be posted on the 4-H website well prior to the competition. A preliminary guide, subject to change, follows:
  - a. The competition begins at 5:00 PM; participants must be signed in by 5:15 PM to be scored.
  - b. The challenge course will be available from 5:00 PM-5:15 PM for final calibration of sensors.
  - c. This is a LEGO MINDSTORMS NXT competition; only NXT brick-based designs will be scored.
  - d. NXT programs must be created by the participant; shared or copied software will not be scored.
  - e. Each participant shall bring a fully constructed, programmed, charged robot to the competition.
  - f. No additional batteries, computers, NXT, or other parts will be provided to the participants.
  - g. Minor robot components may be made of non-LEGO parts (rubber bands, strings, dowels, etc.).
  - h. No tape, glue, or other adhesives of any kind may be attached to any LEGO parts of the robot.

- i. Any non-LEGO components used must not permanently alter any LEGO parts of the robot.
- j. The robot must fit in the 12"x12" START area but may be as tall as desired.
- k. Once activated, the robot must accomplish the challenge by itself.
- l. No human may remotely control or touch the robot during the execution of the challenge.
- m. Scoring for each individual challenge attempt will cease at an elapsed time of five minutes.
- n. Participants will be allowed two attempts to complete each challenge.
- o. The rules described on the 4-H web site for the current year are more current than, and supersede, the rules listed in the printed Howard County 4-H Fair Book.