

# 2020 ROBOTICS FACT SHEET

Ohio State University Extension  
Erie County 4-H  
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<http://erie.osu.edu>

## Project Numbers

✦ 507 – Robotics 1 with LEGO® EV3

✦ 508 - Robotics 2: EV3N More  
(uses LEGO® EV3)

✦ 512M - Robotics Master

For more information go to:

<http://www.ohio4h.org/robotics/>

## Evaluation Times and Places

Projects will be judged Tuesday, July 21<sup>st</sup> after 5pm at the Erie Co. Fairgrounds. **Specific** judging times will be posted with the July/August issue of *The Buzz* on our website.

Announcement of results will begin after 7:00pm.

**Key Leader - At time of publication we are in need of a Key Leader.**

**Extension Educator Responsible - Angela Holmes**

## General Exhibit Requirements

**Project check-in:** Bring your exhibit to the fairgrounds on Monday, August 10, 2020 between 5-8pm.

**Project check-out times are:**

Supervised - Sunday, August 16, 2020 from 7-8pm

Unsupervised - Sunday, August 16, 2020 from 8-9pm

Monday, August 17, 2020 during the day, after that projects will be at the Extension Office until September 18.

1. Completed project books and Member Project Guides are required at all judgings. If book and/or guidelines are not complete or not present, the letter grade will be lowered and the member is not eligible to place.
2. Appropriate attire for judging is required. Appearance should be neat, clean, and respectful. No shorts, tank tops, tube tops, halter-tops, midriff tops, or low-rise jeans should be worn for judging.
3. All projects displayed at the fair must be identified with name, age, and project. Display must be for the current year's project.
4. Junior division includes ages 13 and younger. Senior division includes ages 14 and older as of January 1 of that judging year. If numbers in a project warrant it, the junior class will be split to include a Beginner class.

✦ Designates projects that are eligible for the state fair, if member is selected.

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## ROBOTICS

✈ **507 Robotics 1 with LEGO® EV3**- This project utilizes LEGO EV3 core set available from LEGO education. Bring completed project book to judging. Follow the guidelines on page 3-7 for completing the book. Be prepared to demonstrate your LEGO EV3 robot's ability by completing three or more of the tasks identified in Activity 12 of the 4-H project book in less than 10 minutes. their LEGO NXT robot's ability to complete three or more of the tasks identified in Activity 12 of the 4-H 509 project book in less than 10 minutes. Contestants are required to bring their own test surface on which to demonstrate their robot's completion of these tasks along with a printout of the program.

*Fair Exhibit:* Exhibit illustrating highlights of your project experiences or one of the completed learning activities for an educational display. Exhibit should not exceed 30"x30".

✈ **509 Robotics 2: EV3N More** – This project utilizes the LEGO® EV3 robot that would have been constructed for 507 Robotics 1 with EV3. You also need a computer to run the programming software and Internet access for watching videos. Follow the project guidelines on page 3 for completing the book, record your work on pages 4-7 and record your work throughout the book. Bring completed project book to judging and be prepared to demonstrate the robots completion of a task of your choosing (in less than 10 minutes) with a printout of the program. Bring your own test surface.

*Fair Exhibit:* Exhibit illustrating highlights of your project experiences of one of the completed learning activities for an educational display. Exhibit should not exceed 30"x30".

✈ **512M - Robotics Master** – This project is for members who want to continue with robotics after completing the existing Ohio 4-H robotics projects or who want to explore robotics in a different platform (not Legos). Members should have previous robotics experience and be able to plan and complete the project on their own with minimal supervision. Contestants are required to bring their own test surface on which to demonstrate their robot's completion of these tasks along with a printout of the program.

*Fair Exhibit:* Exhibit illustrating highlights of your project experiences or one of the completed learning activities for an educational display. Exhibit should not exceed 30"x30".

\*Junior Fair projects may not be sold on the fairgrounds except through the fair project auctions.  
For sale signs may not be posted on projects.