

509 – ROBOTICS ESSENTIALS

General Project

For info on approved Robot Kits go to: <http://www.ohio4h.org/robotics>

- ✿ For project COMPLETION and GRADE, Member MUST participate in either:
 1. **County 4-H Project Judging Day** – Ross County Fairgrounds
Member is eligible for County Awards (Judges' Choice, Outstanding, Honorable Mention) and State Fair Selection (if applicable)
 2. **Early 4-H Project Judging** – Ross County Service Center
Members unable to attend County Project Judging Day should plan to attend Early Judging. Member is eligible for County Rosettes (Outstanding, Honorable Mention).
** Exception for State Fair selection at Early Judging - If there is only one member judged in a project, then the judge has the option to select a state fair representative.*
- ✿ Complete "Thank You" note activity (see copy of instruction sheet included in your project book)
- ✿ To receive Fair Premiums, your project must be displayed at the Ross County Fair in a Jr. Fair Building booth.
- ✿ **For Project Judging Dates & Times & Details:**
ASK your Club Advisor
READ the *May Family HOTLINE* sent to every 4-H family
LOOK on the 4-H App or website <http://ross.osu.edu>

Skill Level: Intermediate

Completion:

A computer and internet access are required for this project!

1. All 10 activities
2. Construction of a LEGOS® SPIKE or VEX® Robot
3. All "Talking It Over" questions
4. At least 2 Learning Experiences
5. At least 2 Leadership/Citizenship activities
6. In addition to your robot, prepare an educational exhibit (item made from project book, photo exhibit, notebook, scrapbook or poster; poster size minimum 14" x 22" and maximum 22" x 28") based on this project.

Judging:

1. Interview based on skills learned, activities completed and educational exhibit.
2. Bring to interview on 4-H Project Judging Day:
 - a. Completed project book
 - b. Completed educational exhibit
 - c. Robot (Be prepared to demonstrate Robot's ability to complete tasks found in the project book)
 - d. Test surface on which to demonstrate Robot's completion of tasks

County Fair Exhibit:

An educational exhibit relating to project work displayed in a fair booth.

It is recommended you do NOT display your robotics vehicle or equipment!

State Fair Competition:

1. State Fair participants will be selected during county-level competition on 4-H Project Judging Day.
2. Event: STEM Day.
Completed project book, display, and interview.
3. Contestants will demonstrate their robot's ability to complete tasks. 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.

