

**503M – SOLID-FUEL ROCKETRY MASTER**  
**General 4-H Project****2024**

- ✿ 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>

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**Skill Level:** Advanced, with significant experience in rocketry and be able to plan and complete the project on own with minimal supervision or assistance. (ages 14 -18)

**Project Completion:**

1. One major solid-fuel rocketry project
2. At least 2 learning experiences
3. At least 2 citizenship activities
4. Project records including interview, budget, and photos
5. Prepare an educational exhibit based on this project (item made from project book, photo exhibit, notebook, scrapbook or poster (minimum 14" x 22" and maximum 22" x 28").

**Judging:**

1. Interview based on skills learned, activities completed and educational exhibit.
2. Bring to interview on General 4-H Project Judging Day:
  - a. Completed project book
  - b. Completed educational exhibit
  - c. The Solid-Fuel Rocket you built

**County Fair Exhibit:**

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

**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.  
*\*Display should be limited in size to what the participant can maneuver on his/her own*

**Additional Resources:** *Endorsement of these products by Ohio State University is neither intended nor implied.*

Aquaport II Water Rocket Launcher

[pitsco.com](http://pitsco.com)

EZ-Launch Pop Bottle Launcher

[ez-launch.com](http://ez-launch.com)

Astronomy Picture of the Day

<https://apod.nasa.gov/apod/astropix.html>

