

**Small Engines
(State Fair Entry)**

- Enroll in 4-H, pay annual program fee, and enter project in V2.4online by May 15
- Enter exhibit(s) in FairEntry by last business day in June, which is June 30, 2021. See page 7 Rule #23.
- Exhibits checked-in Saturday, July 24 from 9am-12 noon, judging starts at 12:30 pm

The 4-H member should complete 2 activities in their Activity Manual.

An Allen County 4-H General Record Sheet must be completed, signed and turned in at the beginning of check-in for All Exhibit Building Projects.

Level 1 - Grades 3, 4, 5

Level 2 - Grades 6, 7, 8

Level 3 - Grades 9, 10, 11, 12

ALL LEVELS: The actual small engine may be displayed as the educational display. It must be mounted on a stable base no larger than 30"x30". For safety reasons, all fluids (fuel and oil) must be removed. Note: An educational display It must be accompanied by a notebook with details and pictures of what was done to the engine. See Allen County General 4-H Rules: Poster Rule & Label Rule.

All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author when using outside sources, to complete the 4-H member's exhibit. This reference list should/might include web site links, people and professionals interviewed, books, magazines, etc. It is recommended this reference list be attached to the back of a poster or display board, be the last page of a notebook, or included as part of the display visible to the public. A judge is not to discredit an exhibit for the manner in which references are listed.

Display Board Requirements

- No more than 36" x 36" and free standing
- 3-dimensional display
- All items to be securely fastened
- 4-H member's exhibit card to be secured in lower right hand corner

Exhibit:

Level 1 – Grade 3, 4, 5 - Exhibit a Poster or display board on one of the following topics you studied from your manual.

- Picture poster showing what you have learned about small engines.
- Display of basic tools needed to maintain a small engine.
- An educational display related to what you have learned about two-cycle engines.
- An educational display related to what you have learned about four-stroke engines.
- An educational display showing proper maintenance and care of a lawn mower.
- An educational display of proper safety labels and procedures for small engines.
- Small engines parts display board with a brief explanation of the purpose of the parts and how they work.
- Display related to some system that you learned about in small engines (filters, cooling, ignition, etc.).

Level 2 – Grade 6, 7, 8 - Exhibit a Poster or display board on one of the following topics you studied from your manual.

- An educational display comparing the different types of engines.
- An educational poster illustrating and explaining the internal parts of an engine.
- An educational display showing how transmissions work.
- An educational display showing how to conduct a compression check.
- An educational display showing how to adjust a carburetor according to owner's manual instructions and in accordance with EPA regulations.
- A display using a real small engine with a brief explanation showing steps in preparing a small engine for storage.
- Carburetor parts display board with a brief explanations on the purpose of the parts and how they work together.
- An income and expense record of your lawn mowing business, including cost, hours worked pay for individual jobs, etc.

Level 3 – Grade 9, 10, 11, 12 - Exhibit a Poster or display board on one of the following topics you studied from your manual.

- An educational display showing how to use diagnostic tools on small engines.
- An educational display showing how to tear down and reassemble a small engine.
- An educational display related to the electrical system of a small engine.
- An educational display about emissions systems on small engines and future trends.
- An educational display showing mower blade inspection and maintenance skills.
- An educational display about careers in small engines.
- An educational display about your work in finding resources about small engines on the Internet.
- An educational display about trouble-shooting common problems with small engines.
- An educational display about small engines designs.
- Any educational display related to what you have learned in this project.