

## \*4-H SMALL ENGINE

### TERMS AND CONDITIONS

- Posters must be displayed horizontally, sized 22" x 28", mounted on a firm backing (foam core board or other), and covered in clear plastic or other transparent material. Refer to 4-H Poster Guidelines. Poster must include fair entry tag with 4-H member identification.
- The actual small engine may be displayed. It must be mounted on a stable base not larger than 30"x30". For safety reasons, all fluids (fuel and oil) must be removed. Note: It is strongly suggested that a notebook with details and pictures of what was done to the engine accompany the display.
- Display Board Requirements
  - No more than 36" wide x 24" deep and free standing.
  - 3-dimensional display
  - All items to be securely fastened
  - Fair Entry tag needs attached in lower right hand corner

All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author, 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 note, 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.

### REQUIREMENTS

#### **Level 1 (Grade 3, 4, and 5)**

##### **SUGGESTED FAIR EXHIBIT GUIDELINES**

Education display: Any education display related to what you have learned in this project. Some possibilities of exhibits might include:

- 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 engine 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 (Filter, Cooling, Ignition, etc.).

#### **Level 2 (Grade 6, 7, and 8)**

##### **SUGGESTED FAIR EXHIBIT GUIDELINES**

Educational display: Any educational display related to what you have learned in this project. Some possibilities of exhibits might include:

- An educational display comparing the different types of engines.
- An educational poster illustrating and explaining the internal parts of an engine.
- An education display showing how transmissions work.
- An educational display showing how to conduct a compression check.
- An education 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 explanation of the purpose of the parts and how they work together.
- An income and expense record of your lawn mowing business, including costs, hours worked, pay for individual jobs, etc.

### **Level 3 (Grades 9, 10, 11, and 12)**

#### **SUGGESTED FAIR EXHIBIT GUIDELINES**

Educational display: Any education display related to what you have learned in this project. Some possibilities of exhibits might include:

- 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 emission 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 engine designs.
- Any educational display related to what you have learned in this project.