## MINNESOTA 4-H PROJECT EVALUATION
### SMALL ENGINES

4-Her Name: ________________________________ Grade: ____________

County or Club: ___________________________ Years in 4-H: ________ Years in Project: ____

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### Comments:
- Strengths/accomplishments
- Skills learned
- Areas to work on
- Possible new challenges
- Questions to think about

### Learning Involved:
- Can identify internal parts of engine.
- Can identify tools needed to repair and maintain engines.
- Has knowledge of types of engines and jobs they perform.
- Understands working of internal engine parts.
- Can explain safety practices are needed.

### Workmanship & Techniques of Project:
- Maintenance procedures and operating procedures are evident.
- Engine tear down and assembly were performed correctly.
- Safety procedures needed to operate a small engine are demonstrated.

### General Appearance and Design:
- Exhibit meets the rules and guidelines.
- Exhibit as presented is neat and attractive.
- Exhibit as presented is clean and free of debris.
- If a small engine is exhibited, is it empty of gas or shut off from source of power?
### Rules
- The 4-Her’s name, county, age and project name must be included on the back of the poster, display or notebook.
- If a small engine is exhibited, it must be empty of fuel and shut off from source of power.
- Note: The State Fair may include a Small Engine contest. Evaluation could include the following:
  - Troubleshoot for malfunctions on a small engine.
  - Identify parts and/or tools and tell what they do.
  - Complete a written test.

### Guidelines
- The size of three-dimensional display and poster should be consistent with size recommended by Minnesota 4-H.
- Projects are not limited to three-dimensional displays or posters; they may be actual engines, and parts, games, or technology-related exhibits.
- Exhibit should show or explain something the 4-H’er made, did or learned about small engines.
- Resources should be credited and documented in the exhibit (e.g., books, internet, 4-H or Extension publications, person with special knowledge, magazine articles, etc.).

### Project Ideas
- Display that helps demonstrate what you have learned about small engines.
- An exhibit that shows the uses or jobs that involve small engines.
- Display on the parts of an engine, etc.
- Chart procedures needed before starting an engine.
- Chart procedures needed to maintain an engine.
- Rebuild a small engine and document with photographs of your steps.
- Other ideas related to Small Engines.

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**Resources Available:**

**Web site for Minnesota 4-H resources:**
- [www.mn4-H.umn.edu/projects](http://www.mn4-H.umn.edu/projects)
  - [http://z.umn.edu/mn4hsmallengines](http://z.umn.edu/mn4hsmallengines)

**Web site for National 4-H resources:**
- [http://www.4-hdirectory.org/](http://www.4-hdirectory.org/) (Click Browse)
- [http://www.4-hmall.org/Curriculum.aspx](http://www.4-hmall.org/Curriculum.aspx)
  - 08186 Small Engines 1 - Crank It Up
  - 08187 Small Engines 2 - Warm It Up
  - 08188 Small Engines 3 - Tune It Up
  - 08189 Small Engines Group Helper's Guide
  - 08190 Small Engines - Set of 4

Engine Owners Manual, Libraries, Local small engine dealers, Local small engine repair shops, Schools (High Schools, Technical Colleges, etc), Small engines manufactures.