



SMALL ENGINES II

Welcome

Welcome to the **Small Engines II Project!** Please read through this guide carefully, as it contains information and suggestions that are important for your project. **4-H leaders can obtain a Leader Project Guide and other resources from the PEI 4-H Office.** Hopefully you, as a member, will “Learn to do by Doing” through hands-on activities that will encourage learning and enjoyment. If you have any questions, contact your District 4-H Officer or your 4-H project Leader.

4-H YEAR COMPLETION

You complete a project by:

- completing the project Achievement Day requirements
- completing a communication project
- completing a community project
- completing an agriculture awareness project
- taking part in Achievement Day



ACHIEVEMENT DAY REQUIREMENTS

Display the small engine you or your group worked on during the year. It must be cleaned and prepared for winter storage.	50
Demonstration on one of the following: A) Maintaining the carburetor B) Maintaining the starter C) Maintaining the generator	25
Poster on one of the following: A) The basic composition of the member's small engine, i.e. the piston connected to the connecting rod connected to the crankshaft, etc.—show main sequence of events indicating how engine runs the machine B) The ignition system of the member's small engine. Show how spark is finally ignited at the spark plug	20 100 Marks

EXHIBITION REQUIREMENT

Poster

BE A GOOD SPORT!

In the spirit of learn to do by doing, all those involved in 4-H are encouraged to practice good sportsmanship, use common sense at all 4-H activities and the work in any 4-H project should be the member's own work.

Ages for 4-H members as of January 1st of the 4-H year:

Junior: 9-11 years
 Intermediate: 12-14 years
 Senior: 15-21 years

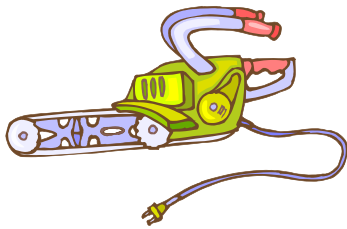
Check out the PEI 4-H Web Site

www.pei4h.pe.ca

Safety Tips...

General Safety

- Keep your work area clean. A crowded, dirty work area can lead to dangerous situations. Wipe up any spills which may occur, and put items away when they are not being used.
- Be sure your work area is well vented against exhaust fumes. An exhaust tube works well if you are indoors. Carbon monoxide, present in exhaust, is a lethal killer which is hard to detect because it is odorless and invisible. Don't take chances!
- Gasoline fumes are highly flammable. Keep all gasoline cans away from any heat, sparks or open flames. Also, check your engine for fuel leaks. A leak can lead to an explosion.
- When filling the fuel tank on your engine:
 - ⇒ Fill it only in well ventilated areas.
 - ⇒ Fill only when the engine is cool (check the fuel level before you start),
 - ⇒ Do not overflow the tank. Wipe up any spills promptly and allow the spill to evaporate,
 - ⇒ Be sure the spout of the gasoline can is in contact with the engine tank. This prevents an explosion caused by a static electricity spark,
 - ⇒ Never fill the fuel tank in the presence of fire or heat.



Poster Requirement

This project requires that you complete a poster. Create a poster based on various safety rules to use when working around an engine.

Be sure to...

- Use the "4-H Poster Book" as a guide
- Use a whole sheet of Bristol board
- Use quality not quantity information
- Use your imagination, drawings or pictures, and creativity
- Write your name, club and age on the back of the poster.

Workshop Safety

- Do not wear loose clothing near small engines. The rotating parts could catch you and your clothing. Don't wear jewelry (rings, chains, bracelets.)
- Tie back long hair to protect yourself from danger.
- Engines get hot! Be sure your engine is cooled before you try to work on it.
- There should be no horseplay.
- Don't point airhoses at people.
- Keep all electrical in good condition.
- Use protective equipment at all times (goggles, shields).

HELPFUL RESOURCES!

www.small-engines.com

www.hobbytalk.com

www.smallengineadvisor.com

A variety of books are available at the PEI 4-H Office which can be borrowed for a two week loan period. To book these, call 368-4833 or drop by the PEI 4-H Office at 40 Enman Crescent, Charlottetown.

How to Make a WOW Poster!

1. Eye Appeal - the overall poster should give a pleasing effect. (Remember this includes neatness, easy to read lettering, and correct spelling).

2. Simplicity - the less complicated visually, the more likely the poster will be read. (Some decoration is fine, but there is a difference between decoration and clutter).

3. Educational Value - a poster should convey a message.

4. Exciting - make the poster fun, not a chore, for both your viewers and yourself.

Other Tips: Use a minimum number of colors, keep lettering horizontal, keep the background neutral and use good quality poster board.

Community and Agriculture Awareness Projects

COMMUNITY PROJECT

Each year you are encouraged to provide a service to your community as a 4-H member. This introduces you to the responsibilities of citizenship. You must participate in your club's plan for a community project and you should have a role to play. Describe your involvement with your club's community project this year.



Our Community Project was _____

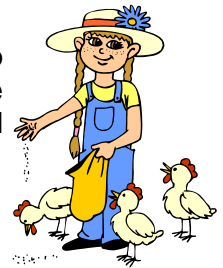
I helped by _____

It was beneficial because _____

I learned _____

AGRICULTURE AWARENESS PROJECT

Agriculture is one of PEI's main industries. You are expected to participate with your club to complete a project (or provide a service) which helps your club or others become aware of the importance of agriculture in our lives. As in the community project, you should actively participate.



Our Agricultural Awareness Project was _____

I helped by _____

It was beneficial because _____

I learned _____