



University of California

Agriculture and Natural Resources

4-H Youth Development Program

4-H Members Name: _____ Club: _____

SMALL ENGINES - Level 1

Explorer-The explorer level is the most basic of all levels. The youth begins to explore the boundaries of the project area, touching on many skills and knowledge areas that will be expanded later.

Date Initial

- _____ 1. The meaning of the following terms or phrases: (70%)
 - 2 stroke, 4 stroke, intake stroke, compression stroke, power stroke and exhaust stroke
- _____ 2. You will demonstrate the location of the following parts and their purpose:
 - air cleaner, spark plug, fuel tank, choke lever, oil filler plug, piston, camshaft, connecting rod, valve(s), carburetor and block
- _____ 3. You will be required to: (30%)
 - Remove the spark plug, and regap it if it is necessary.
 - Check out and start a 2 or 4 cycle engine and adjust to proper running speed.

Project Leader's Signature of Completion: _____ Date: _____

4-H Program Representative Approval: _____ Date: _____

COMMENTS: _____



Head • Heart • Hands • Health



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SMALL ENGINES - Level 2

The Producer level builds and expands on the knowledge and skills learned in level 1- Explorer.

Date Initial

Project Leader's Signature of Completion: _____ Date: _____

4-H Program Representative Approval: _____ Date: _____

COMMENTS: _____



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SMALL ENGINES - Level 3

The Consumer level takes the member beyond the immediate project, out into the community, as they explore the project area in depth.

Date Initial

Project Leader's Signature of Completion: _____ Date: _____

4-H Program Representative Approval: _____ Date: _____

COMMENTS: _____



Head • Heart • Hands • Health