



Enroll in ZSuite Under this Project Name: TECS-SMALL ENGINES-Lv 2: Warm It Up

Approved for 2024-25 Project Year

Project Description: Youth explore the internal parts of engines, learn about engine sizes, compression ratios, seasoning their engines, and safety issues. Occupational and entrepreneurial possibilities are also discussed.

REQUIRED YOUTH CURRICULUM

[Warm It Up, Level 2](#) (#08187), 2005

[ZSuite 4-H Involvement Report](#)

[ZSuite 4-H Project Record Book](#)

REQUIRED VOLUNTEER CLUB LEADER CURRICULUM

[Small Engines Helper's Guide](#) (#08189), 2005

SUPPLEMENTAL RESOURCES

[Briggs & Stratton](http://www.briggsandstratton.com) (www.briggsandstratton.com)

[Ariens](http://www.ariens.com/en-us) (www.ariens.com/en-us)

[John Deere](http://www.deere.com) (www.deere.com)

[Kohler](http://www.kohlerpower.com/en/engines) (www.kohlerpower.com/en/engines)

[Tecumseh Engines](http://www.tecumsehengineparts.com) (www.tecumsehengineparts.com)



PROJECT COMPLETION CHECKLIST

| STATE REQUIREMENTS | |
|--------------------|--|
| | Complete a minimum of 7 required/optional activities in the Warm It Up project manual each year. |
| | Finish at least 21 of the required and optional activities within 3 years to pass each book. |
| | Have your project helper date (month and year) and initial each activity when it is finished. |
| | Complete the 4-H Project Record Book for this project in your ZSuite Member Account |
| | Fill out your 4-H Involvement Report in your ZSuite Member Account |
| | Give an oral presentation (speech, demonstration, or illustrated talk) to your 4-H peers on a topic related to this project. Recommended guidelines for length of oral presentations are: <ul style="list-style-type: none"> • Junior: 5-8 minutes • Intermediate: 8-10 minutes • Senior: 10-12 minutes |

| ADDITIONAL LOCAL REQUIREMENTS |
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| FAIR EXHIBIT CHECKLIST | |
|------------------------|--|
| | Completed Idaho 4-H Involvement Report (ZSuite) |
| | Completed Idaho 4-H Project Record Book for this project (ZSuite) |
| | Completed Warm It Up project manual |
| | ONE of the following exhibit options: <ul style="list-style-type: none"> • A poster (14"x22") or display illustrating something you learned in this project this year. • A scrapbook of pictures of an activity you conducted • One of the following items (each year it should be a different item): <ul style="list-style-type: none"> ○ Classifying small engines ○ Determining engine size ○ Comparison of diesel and gasoline engines ○ Alternative energy sources ○ Grades of gasoline ○ Grades of engine oil ○ Small engine parts ○ Buying engine parts ○ Air cleaner cutaway ○ Electrical system cutaway |

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