



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

*Approved for 2023-24 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"> <li>• Junior: 5-8 minutes</li> <li>• Intermediate: 8-10 minutes</li> <li>• Senior: 10-12 minutes</li> </ul>

ADDITIONAL LOCAL REQUIREMENTS

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"> <li>• A poster (14"x22") or display illustrating something you learned in this project this year.</li> <li>• A scrapbook of pictures of an activity you conducted</li> <li>• One of the following items (each year it should be a different item): <ul style="list-style-type: none"> <li>○ Classifying small engines</li> <li>○ Determining engine size</li> <li>○ Comparison of diesel and gasoline engines</li> <li>○ Alternative energy sources</li> <li>○ Grades of gasoline</li> <li>○ Grades of engine oil</li> <li>○ Small engine parts</li> <li>○ Buying engine parts</li> <li>○ Air cleaner cutaway</li> <li>○ Electrical system cutaway</li> </ul> </li> </ul>

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