# Science & Technology

## ENGINES, TRACTORS, FIELD EQUIPMENT

### LEVEL 2

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| **Warm It Up, Grades 6-8** | In the member’s current Manual:  
- Complete a minimum of 7 required/optional activities 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.  
- Give an oral presentation (speech, demonstration or illustrated talk) related to this project.  

Complete the following:  
- **4-H Involvement Report (#91910)**  
- **4-H Project Record Book (#91950)**  |  
- **4-H Project Record Book (#91950)**  
- **4-H Involvement Report (#91910)**  
- Completed Member Guide  
Exhibit one of the following:  
- 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):  
  - 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  

**Note:** Exhibits must utilize only skills, tools, and techniques taught in this project book or previous levels |

### County Requirements:
Check with your County Extension office for more information.

### Support Materials:
To order from National 4-H Mall visit: [http://www.4-hmall.org/Category/4-hecurriculum-small-engines.aspx](http://www.4-hmall.org/Category/4-hecurriculum-small-engines.aspx)
Idaho 4-H Small Engines page: [https://www.uidaho.edu/extension/4h/projects/small-engines](https://www.uidaho.edu/extension/4h/projects/small-engines)

### Optional Supporting Materials:
- [www.briggsandstratton.com](http://www.briggsandstratton.com) (Briggs and Stratton)
- [www.deere.com](http://www.deere.com) (John Deere)
- [www.kohlerengines.com](http://www.kohlerengines.com) (Kohler)
- [http://www.tecumseh.com](http://www.tecumseh.com) Tune (Tecumseh)