



# New Mexico 4-H Greentop Project Guide



New Mexico 4-H Is A Program of New Mexico State University's Cooperative Extension Service

400.E-104  
(N 05)

## **ELECTRICITY 4- ENTERING ELECTRONICS**

**Objective:** *To develop knowledge and skills about identifying electric and electrical parts, identifying devices that use electrical parts, soldering, and various electrical components such as resistors, capacitors, diodes and transistors. You will also learn planning, organizing, comparing and measuring, making decisions, communication skills, and problem solving.*

### ***MATERIALS THAT ARE INCLUDED WITH THIS PROJECT:***

- Electricity 4- Entering Electronics
- Record Form
- Electricity 4- Entering Electronics Greentop

### ***What do I do with my electricity project materials and information?***

#### ***SUGGESTED STEPS FOR COMPLETING THE ELECTRICITY PROJECT WITH SUCCESS:***

- Review the project book, record sheet, and greentop to become familiar with the project before preparing or giving speeches, workshops, or demonstrations.
- Make a check list of things to complete as you work through the project.
- Attend all small engines project meetings to learn more about your project.
- Participate in county, state, and regional fairs.
- Enter project materials or demonstrations in the county, district, and state contests.
- For completion of the project, complete the record sheet and turn in a county record book to your local Extension Agent.

#### ***SUGGESTED LEARNING ACTIVITIES:***

- Complete required activities as listed in the project book.
- Attend project days or events to listen to featured experts in the field, or to work on your project with others.

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*WHAT YOU CAN DO:*

- Give demonstrations or illustrated talks on how to build a small amplifier to power a speaker.
- Exhibit posters with steps for soldering electrical components at the county, regional, or state fair.
- Give a prepared speech or demonstration about different electrical components to your club or school.
- Help others prepare a speech or demonstration on the difference between hand spliced and soldered wires for an electrical connection.

*WHERE YOU CAN GO FOR ADDITIONAL INFORMATION:*

- County Extension Agent
- Your 4-H Club or Project Leader
- Internet
- Local Electric Company
- Local Electricians
- Library

*ADDITIONAL PROJECTS YOU CAN DO NEXT YEAR THAT WOULD RELATE THE SMALL ENGINES PROJECT:*

- Leadership.....give a demonstration about the different types of electrical components
- Small Engines.....learn about electrical currents as related to power in small engines
- Welding.....learn about electrical currents as related to welding and metal fabrication