



WINNEBAGO COUNTY

# ELECTRICITY PROJECT RECORD FOR 20\_\_

Things I plan to do and learn this year in this project are: (complete this box between Jan. 1 — May 1)	Check When Done

## CHECK SKILLS LEARNED OR IMPROVED

Wire a simple circuit	_____	Develop a basic electrical tool and supply kit	_____
Compare open and closed switches	_____	Read an electrical meter	_____
Compare open and closed circuits	_____	Understand wire and cable codes and symbols	_____
Identify wire gauges and purposes	_____	Read an appliance nameplate	_____
Trace path of electrons	_____	Understand local electrical codes	_____
Identify conductors and insulators	_____	Identify service entrance panel components	_____
Understand magnetism	_____	Identify incandescent, fluorescent and compact bulbs	_____
Build an electromagnet	_____	Explore cost efficiency of light bulbs	_____
Define and correctly use electrical terms	_____	Identify types of receptacles	_____
Use a soldering iron	_____	Use a voltage tester	_____
Understand Ohm's Law	_____	Test grounded outlets	_____
Use a Volt-Ohm meter	_____	Calculate correct circuit wattage	_____
Learn basic symbols	_____	Identify and use electronic parts	_____
Understand voltage in circuits	_____	Demonstrate how diodes work	_____
Learn difference between AC and DC	_____	Use transistors	_____
Replace a switch	_____	Use resistors`	_____
Design a three- or four-way switch	_____	Understand capacitors	_____
Read a circuit diagram	_____	Other: please list	_____
Use digital and analog meters	_____	_____	_____
Measure voltage	_____	_____	_____
Understand series and parallel circuits	_____		
Test batteries	_____		
Design and use a momentary switch	_____		
Communicate in Morse Code	_____		

**Ways You Received Help This Year Include:**  
(check all that apply)

<input type="checkbox"/>	Attended project training offered by my club
<input type="checkbox"/>	Attended project training offered at the county level
<input type="checkbox"/>	Attended project training offered at District or State Level
<input type="checkbox"/>	Guidance from 4-H Leader/4-H Club
<input type="checkbox"/>	Guidance from Parent/Guardian/Other Adult
<input type="checkbox"/>	Reading and use of 4-H project guides
<input type="checkbox"/>	Reading and use of literature, books, audio visual resources
<input type="checkbox"/>	Own knowledge
<input type="checkbox"/>	Help from friends/other youth
<input type="checkbox"/>	Other (describe)

**Exhibits in This Project:**

**Item**                      **Placing**  
(additional page may be added)


List at least 2 electrical industry related careers that you can identify.

\_\_\_\_\_

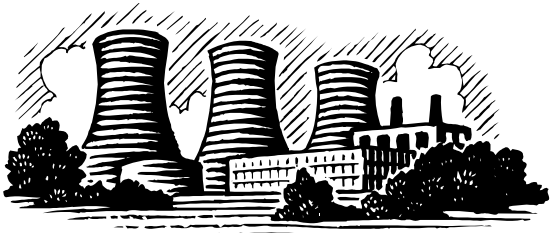
\_\_\_\_\_

\_\_\_\_\_

Are you interested in a career related to the electrical industry?  
Yes \_\_\_\_\_ No \_\_\_\_\_ Maybe \_\_\_\_\_

What did you learn or enjoy in the project this year?

What project related skill(s) would you like to learn or improve?



**Project Worth Statement**

Has this project been worthwhile to you? Why or why not?