

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 & 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)**

|  |  |
| --- | --- |
| **Item** | **Placing** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Exhibits in This Project:**

(additional page may be added)

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

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\_



**Project worth Statement**

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

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

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

Revised 10/2019