



4-H Electric – Level 2 Record Sheet

Completed (40 possible) _____
 Accuracy of answers (30 possible) _____
 Appropriate grammar (15 possible) _____
 Neatness of record (15 possible) _____
 Total _____

A = 86-100 points
 B = 71-85 points
 C = 70 points or less

Record for Year _____

A completed record sheet is due by the last business day of May to exhibit each project at the fair. Use any 4-H publications, the internet, the library, or a professional to help you prepare your responses.

The Basics

Name _____ 4-H Club _____

Years in 4-H _____ Grade _____

Getting Started

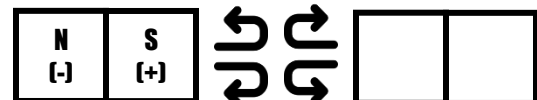
Magnets can attract certain metals, and when you team up magnets, coiled wire, and motion, you can produce electricity. Look around your home and list things in your home that contain or use magnets. Are there appliances, toys, or gadgets in your home that come to mind?

Magnets have opposing or opposite poles. One side is the “north pole” and one side is the “south pole.” Opposite poles attract, and like poles repel. Fill in the boxes below to demonstrate how poles attract and repel.

Attracting Poles



Repelling Poles



Making Connections

Describe how a direct current (DC) works. _____

Describe how an alternating current (AC) works. _____

Define electromagnet: _____

Lighting It Up

Provide a brief description of your 4-H exhibit or plan for your exhibit.

We do not necessarily care what you spent constructing your exhibit, but it is good for you to understand that things have a cost. Even poster boards are not free. Approximately how much did you spend constructing your exhibit or think you'll spend once it is complete? Circle one.

\$0.00-\$5.00 \$5.00-\$15.00 \$15.00-\$30.00 \$30.00-\$50.00 Greater than \$50.00

What did you enjoy the most about your project this year? _____

What was the most challenging thing you encountered with this year's exhibit? _____

Shining On

High voltage electricity is very dangerous. If someone were to get in an accident in which an electrical power line fell on their vehicle, why might it be important for the driver and/or passengers to stay in the car rather than exiting the vehicle? _____

Businesses hire electricians, and this is how some people "make a living" and take care of themselves or their families. Name three electrical companies or companies that hire electricians in the area where you live.

1. _____
2. _____
3. _____

What is one thing you learned or sparked your interest as a result of completing this project? _____

In what way does this project apply to your life, or why is this subject matter important to you? _____
