



Electric Level 2 Introduction

Welcome to the 4-H Electric Project! The second level of the Electric project is intended for youth in their second year of the Electric project or those who are just beginning to explore electricity.

Magnetic fields are all around us, whether in nature or man-made and are very useful. We use them to navigate, examine the body, generate electricity, and run motors. Early inventors discovered the correlation with electricity and magnetic fields. See if you can discover the correlation with the level 2 materials and better understand and recognize the world of electricity.

4-H participants will be evaluated on how well they are meeting the expectations of the program. Their projects, along with Skills & Knowledge Sheets are scored by judges during the fair. While this is intended to be fun and educational, there are industry standards that keep projects and participants safe.

You should have received **Book 1-Magic of Electricity** and **Book 2-Investigating Electricity** from your local Extension Educator your first year or acquired them this year. The activities in these resources will be utilized again this year as you continue to grow.

Other resources that will help you complete your project can be found on the Purdue Extension website. Visit <https://extension.purdue.edu/4-H/projects/4-h-project-electric.html> and look for the following under Project Resources:

- **Score Cards**
- **Record Sheets**
- **Level II Project Sheets**
- **Exhibit Guidelines**
 - **Electric Exhibit Guidelines**
 - **Electric Skills and Knowledge Sheet**
 - **Exhibit Skills and Knowledge Chart**
- **Instructional Videos**
- **Other** (includes information on how to order kits, how to make a poster, and books about wiring)

Be sure to review the **Score Card** for your particular project first so that you understand the judges' expectations for the project and the participant.

Inquire of your local Extension Educator for Electric Project Leaders in your area. They may hold workshops or give advice on the electric project.

Note: Projects can be in the form of Physical Objects, Posters, Display Boards or Written Report at any level. Projects are not limited to all the resources mentioned here or on the Purdue extension website. We encourage creativity within projects if they are age and level appropriate.

Safe industry standards must be observed with electrical components and will be judged accordingly.

Good luck, have fun and be safe!