

Electric

Exhibit Introduction

All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author, to complete the 4-H members exhibit. This reference list should/might include web site links, people and professionals interviewed, books, magazines, etc. It is recommended this reference list be attached to the back of a poster or display board, be the last page of a notebook, or included as part of the display visible to the public. A judge is not to discredit an exhibit for the manner in which references are listed.

Requirements

Level: Division I

Last Modified: 10/01/13

Project Completion Recommendations

1. Make a circuit board.
2. Conduct a Hazard Hunt.
3. Complete your record.

Exhibit

*Exhibit at your local or county fair a circuit board (using kit provided, label parallel or series circuit). "What I Have Done and Learned" is required for county only.

Requirements

Level: Division II

Last Modified: 10/06/05

Project Completion Recommendations

1. Make a magnetic powered flashlight or exhibit a poster (22" x 28") on a topic described in the manual.
2. Complete your record.

Exhibit

*Exhibit at your local or county fair either: magnetic powered flashlight or a poster (22" x 28") as outlined in the project manual or project CD.

Requirements

Level: Division III

Last Modified: 10/01/13

Project Completion Recommendations

1. Make one of the following:
 - a. Build an extension cord using all new parts
 - b. Build an incandescent trouble light using all new parts
 - c. Build a fluorescent trouble light using all new parts
 - d. Repair an extension cord or trouble light by replacing the cord, plug, connector body or socket handle with a new part(s).

- e. Create a poster about
- wire size
 - wire type
 - current carrying capacity
 - the parts of an extension cord or trouble light
 - an important safety-related topic
 - any topic covered in the Division III manual

All poster exhibits are to be displayed horizontally, sized 22"x 28", mounted on a firm backing (foam-core board or other) and covered in clear plastic or transparent material. Place standard identification label with your name, grade and county in the lower right-hand corner of the poster.

2. Complete your record.

Note: For parameters on any of the above project options, see the Division III electric manual

Exhibit

*Exhibit at your local or county fair either: Extension cord; a trouble light or a poster as outlined in the project manual.

Requirements

Level: Division IV

Last Modified: 09/01/06

Project Completion Recommendations

1. Complete the activities presented in the manual.
2. Make or remake a lamp, or make a poster or display board on any topic covered in the manual
3. Complete your record

Exhibit

*Exhibit one of the following at your local county fair.

- Made or remade lamp
- Display board on any topic covered in manual
- Poster on any topic covered in this manual

All poster exhibits are to be displayed horizontally, sized 22" x 28", mount on a firm backing (foam-core board or other) and covered in clear plastic or transparent material. Place standard identification label with your name, grade and county in the lower right-hand corner of the poster.

Requirements

Level: Division V

Last Modified: 10/01/15

Project Completion Recommendations

~~Wiring Around Your Home -- Manual: "Wiring Around Your Home"~~

~~Exhibit **ONE** of the following:~~

- ~~• Display board or Equipment Wiring Board (board with electrical equipment mounted on board for display/demonstration)~~
- ~~• Poster~~

- ~~Notebook (Lots of pictures and written explanation of the work that you performed, usually great for projects that are too big to bring to the fair to exhibit. You can also include a notebook with a display board or other exhibit options to help tell the entire story that you have about your project if you can't tell about the detail of work performed on the limited size of display space or to supplement your other work.~~
- ~~Written Report~~

~~Topics for this project include but are not limited to:~~

- ~~electrical work that you did around your home or other location and how you accomplished it (preferably with models, pictures or a small part of your total installation). Be sure to include a wiring diagram of your project with your exhibit.~~
- ~~analyze the current wiring situation in your home or out buildings and develop a new system that you feel would be better. Be sure to show diagrams of the old and new systems. Also, explain why the new proposed system is better.~~
- ~~any topic covered in this manual.~~

Requirements

Last Modified 10/1/15

Level: Advanced Divisions 6-5-10 Electricity & Electronics (This book is being updated and you may find other resources at your local library, electricians, instructors, internet, etc. to provide guidance for your project.)

Project Completion Recommendations

The Advanced Division is split into two different categories. One area is “Advanced Electric 6-5-10” and the second is “Advanced Electronics 6-5-10.” You may choose one category for your Advanced 6-5-10 exhibit

Exhibit

Exhibit **ONE** of the following:

- An article made in the area of heating and cooling
- An article made in the area of lighting
- An article made in the area of electronics (advanced division electronic projects may contain and use molded plugs if they are part of the electronic kit)
- An article made in the area of power
- A written report on: consumer buying, better electrical methods, or electrical careers.
- A written notebook report with photos of individual steps (close-up) and overall work, illustrations, explanation of each step performed, explanation of overall work done, reasons for performing work, reasons for selecting materials used, list of materials used and prices (budget), schematics, etc. of electric project. This option allows you to use your imagination and complete any electrical project that you cannot physically bring to the fair to exhibit. You could wire a room in a house, the barn, outdoor lighting, indoor lighting, control systems, alarm systems, etc.
- Display board (no larger than 36"x36"x36") showing home wiring (3-way switch, 4-way switch, GFCI Grounding, Circuit Protection, etc.) or any topic covered in the Advanced Division manual.

Attach to the exhibit any kit instructions or book/manuals if you feel they will help explain the operation of the exhibit. This may be important for advanced electronic projects.