

# DEPARTMENT 23J

## ELECTRICITY

Superintendents & Jr. Fair Board Representatives:  
Steve & Cindy Redmond, 715-884-2928

**Check General Rules and Judging Schedule found in the front of the book.**

Conference Judging will be followed.

Exhibitors must be present for judging or will be dropped one placing unless excused by Dept. 23J Superintendent. To preserve the quality of your exhibit, batteries should only be brought at judging time.

BEST OF SHOW .....		ROSETTE
CLASS	A, B	C, D
Blue .....	\$2.00	\$2.50
Red .....	\$1.75	\$2.25
White.....	\$1.50	\$2.00
Pink.....	\$1.25	\$1.75

### CLASS A: 1<sup>st</sup> YEAR

Open to members enrolled in “Magic of Electricity” or members of other youth groups doing equivalent work.

**Lot**

1. Circuit board
2. Electric question board
3. Scrapbook of electrical experiments
4. Display of wire & usage
5. Simple electric motor-homemade
6. Simple electromagnet
7. Homemade buzzer
8. Galvanometer
9. Any other low voltage device
10. Any other magnetic device

### CLASS B: 2<sup>nd</sup> YEAR

Open to members enrolled in “Investigating Electricity” or members of other youth groups doing equivalent work.

**Lot**

1. Display showing a series circuit
2. Display or project with soldered connections (minimum of 4 solders)

3. Display showing a parallel circuit
4. Simple electric motor-homemade
5. Panel exhibit of small electric motor – ( use motor, take apart & display on panel, label, describe)
6. Test lamp
7. Rocket launcher
8. Three-way switch
9. Display of fuses with descriptions of how they work
10. Display of light bulbs and uses

### CLASS C: 3<sup>rd</sup> YEAR

Open to members enrolled in “Wired for Power” or members of other youth organizations doing equivalent work.

**Lot**

1. Trouble light
2. Light duty extension cord
3. Heavy duty extension cord
4. Homemade lighting device
5. A rewired project
6. Display of wire types used in residential construction
7. Display of a 3-way and a 4-way switch using 120 volt (standard household current)
8. Drawing or electrical blueprint of a new construction project or a remodel project
9. Display of a switched outlet series of 2 or more outlets, and a ½ switched outlet
10. Display using a GFI outlet and a regular outlet
11. Display of entry system
12. Display of entrance panel

### CLASS D: 4<sup>th</sup> YEAR

Open to members enrolled in “Entering Electronics” or members of other youth organizations doing equivalent work.

**Lot**

1. Project using a photo cell
2. Display showing types of circuits
3. Poster showing and defining electronic symbols
4. Project using a diode
5. Project using transistors (minimum of 2)
6. Burglar alarm

7. Project using capacitors (minimum of 2)
8. Build a simple radio
9. Wiring layout of your home or other building
10. Display showing and defining various electrical components
11. Homemade electrical device using circuitry
12. Display with schematic drawing of an electrical control system