

## DEPARTMENT 23 JUNIOR CLASS ELECTRICAL PROJECTS

Supt. Ralph Jannene

- A. All exhibits will be judged face-to-face, Monday of Fair, from noon to 7 p.m. with a break at 3:30 p.m. The Youth Building will be open at 11:00 a.m. Numbers will be available at 11:45 a.m. After judging is finished, the building will close. Judging will take place in the 4-H Youth Building.
- B. A maximum of five (5) different entries per exhibitor may be exhibited, but not more than one exhibit per entry number.
- C. An explanation may be attached to any exhibit if it would help the judge.
- D. Minimum board size for all projects will be 12" x 18". Maximum display board size will be 18" x 24".
- E. All posters should be 14" x 22" in size. Posters should be on poster board. Those not adhering to these two (2) rules will be dropped one (1) place.
- F. Displays should be more detailed in explanation than a poster. They must be three-dimensional and include articles to assist in explanations. A display should be more than a 14" x 22" poster. It may also be smaller in size than a poster.

### Division 1 – Exploring the World of Electricity

Blue - \$1.75      Red - \$1.50      White - \$1.25      Pink - \$1.00

Class No.	Entry
1	Homemade Series Circuit Board
2	Homemade Parallel Circuit Board
3	Homemade Electric Question Board
4	Homemade Steady Hand Tester Board
5	Homemade Continuity Tester Board
6	Any Other Homemade Electrical Item / Display

### Division 2 – Electricity's Silent Partner – Magnetism

Blue - \$2.00      Red - \$1.75      White - \$1.50      Pink - \$1.25

Class No.	Entry
1	Homemade Electric Motor
2	Homemade Electric Buzzer
3	Homemade Electromagnet
4	Homemade Telegraph Key and Sounder
5	Homemade Galvanoscope
6	Homemade Solenoid
7	Electrical Safety Poster
8	Any Other Homemade Electrical Item / Display

### Division 3 – Working with Electricity

Blue - \$2.25      Red - \$2.00      White - \$1.75      Pink - \$1.50

Class No.	Entry
1	Display Board Showing types of Fuses
2	Display Board of Electric Wires and Cables
3	Display Board of Electric Cords indicating Proper Use
4	Display Board with 3-Way or 3-Way and 4-Way switches Controlling a Light
5	Trouble Light

<b>6</b>	Light-Duty Extension Cord 18/3 OR 16/3 Conductor
<b>7</b>	Heavy-Duty Extension Cord 14/3 Minimum
<b>8</b>	Any Other Related Item

#### Division 4 – Electricity for Family Living

Blue - \$2.50      Red - \$2.25      White - \$2.00      Pink - \$1.50

<b>Class No.</b>	<b>Entry</b>
<b>1</b>	Any Piece of Homemade Solar Equipment
<b>2</b>	Diagram of an Electric Meter with a description of parts and their Purpose
<b>3</b>	Display related to Home Appliances Wattage use and Conversation Practices
<b>4</b>	Poster Showing Nuclear Fuel Cycle
<b>5</b>	Display Board showing Generation, Transmission and Distribution of Electric Power
<b>6</b>	Display Board showing different Motor Types with their Operation and Use
<b>7</b>	Any Other Item

#### Division 5 – Behind the Switch

<b>Class No.</b>	<b>Entry</b>
<b>1</b>	Display Board of AC or DC Motor and it's Parts
<b>2</b>	Display Board showing different Motor Types with their Operation and Use
<b>3</b>	Display Board showing proper Motor Maintenance
<b>4</b>	Any other piece of Homemade Motor Equipment
<b>5</b>	Display showing Generation, Transmission, and Distribution of Electrical Power
<b>6</b>	Poster showing proper Motor Selections

#### Division 6 – The World of Electronics & Electrical Controls

Blue - \$3.00      Red - \$2.50      White - \$2.00      Pink - \$1.50

<b>Class No.</b>	<b>Entry</b>
<b>1</b>	Any Homemade Electric Game
<b>2</b>	Any Homemade Electronic Game
<b>3</b>	Any Homemade Electrical Controls
<b>4</b>	Any Homemade Electronic Controls
<b>5</b>	Any Piece of Homemade Electrical Equipment
<b>6</b>	Any Piece of Homemade Electronic Equipment
<b>7</b>	Electronic Safety Poster
<b>8</b>	Poster Showing the Theory of Electronics
<b>9</b>	Electronic Kit, Assembled and Soldered Properly