

## DEPARTMENT 23-ELECTRICITY

Superintendent Frank Cook

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**Judging Fair Monday, 1:30pm to 6:30pm; Premiums 1<sup>st</sup>, \$3.00; 2<sup>nd</sup>, \$2.75; 3<sup>rd</sup>, \$2.50; 4<sup>th</sup>, \$2.25**

### Rules & Requirements:

- All posters should be 14" x 11" and ready to hang
- No exhibitor may make more than one entry in any lot/prize number.

### CLASS 1 – ELEMENTARY AGE - GRADES 3-5

1	Working switch
3	Electric
5	Poster – Identifying conductors, chart, showing test results (11" x 14") and ready to hang.
7	Poster - Testing Magnetic Attraction Chart (11" x 14") and ready to hang
9	Poster displaying electrical safety

2	Galvanometer
4	Other electrical activity
6	Poster - Series and Parallel Circuits Chart (11" x 14") and ready to hang
8	Poster – Electromagnet, including chart (11" x 14") and ready to hang
10	Any other poster relating to your project

### CLASS 2 – MIDDLE SCHOOL & HIGH SCHOOL AGE – GRADES 6-9+

1	Working switch
3	Electric
5	Simple 3-way Switch
7	Poster – Identifying Conductors Chart (11" x 14") and ready to hang
9	Poster – Testing Magnetic Attraction Chart (11" x 14") and ready to hang
11	Poster – Displaying electrical safety
13	Poster – Insulator-Conductor Chart (11" x 14") and ready to hang
15	Poster – Parallel Circuit and Voltages (11" x 14") and ready to hang
17	Poster – Solder Connections and Comparisons Chart (11" x 14") and ready to hang

2	Galvanometer
4	Momentary Switch
6	Other Electrical Activity
8	Poster – Series and Parallel Circuits Chart (11" x 14") and ready to hang
10	Poster – Electromagnet, including Chart (11" x 14") and ready to hang
12	Poster – Volt Ohm Chart (11" x 14") and ready to hang
14	Poster – Series Circuit and Voltages (11" x 14") and ready to hang
16	Poster – Circuits and Voltages Chart (11" x 14") and ready to hang
18	Any other poster relating to electricity.

### CLASS 3 – ALL GRADES

1	Basic Electric Tool Kit, at least 3 items
3	Electrical Usage in Home Chart
5	Types and Sizes of Wires Chart (11" x 14") and ready to hang
7	Light Bulb Survey Chart (11" x 14") and ready to hang
9	Appliance Operating Costs Chart at least 6 appliances (11" x 14") and ready to hang
11	Neon Circuit Tester Parts Diagram (11" x 14") and ready to hang
13	Poster -Volt, Amp, and Watt Usage in two rooms (11" x 14") and ready to hang
15	Electronic Parts display of at least 6 parts (11" x 14") and ready to hang
17	Circuit Display with Transistor
19	Flashing LED Circuit Display
21	Simple Light Meter
23	Amplifier
25	A display relating to your electricity

2	Interview Electrical Inspector Chart (11" x 14") and ready to hang
4	Breaker Controls in Home Chart (11" x 14") and ready to hang
6	Types of Light Bulbs Display (24" x 24' max size)
8	Appliance Nameplates Chart (11" x 14") and ready to hang. Of at least 6 appliances.
10	Identifying Receptacles Chart (11" x 14") and ready to hang
12	Floor Plan Poster of electrical layout of home, one poster per floor. (11" x 14") and ready to hang
14	Other electrical activity (trouble light, extension cord, wired switch, etc)
16	Circuit Display with Diode
18	Simple LED Circuit Display
20	Photocell Burglar Alarm
22	SCR Intruder Alarm
24	Poster relating to your project (11" x 14") and ready to hang
26	Poster displaying electrical safety (11" x 14") and ready to hang