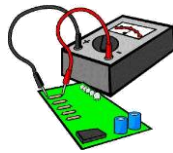


DEPT. 23 – ELECTRICITY

JUNIOR DIVISION



Superintendent: Mike Van Deurzen

336-0520

Entries Due:	July 15 th	Arrival:	Tuesday, 1:30 – 5:30 p.m.
		Judging (Face-to-face):	Tuesday, 1:30 – 6:00 p.m.
		Release:	Sunday, 6:00 p.m.

IN ADDITION TO THE RULES LISTED BELOW, PLEASE REFER TO ALL THE RULES AND REGULATIONS LISTED IN THE FRONT SECTION OF THIS BOOK.

GENERAL RULES:

1. **Batteries:** Exhibits must be complete with batteries where needed.
2. **Exhibitor Requirement:** Exhibitors must be enrolled in the Electricity project or doing similar work in another youth organization in order to exhibit/show.
3. **Grounding:** Cords and trouble lights must be grounded.
4. **Posters:** All posters must be no larger than 14" x 22" and displays must be no larger than 36" x 36".
5. **Safety Standards:** All entries must comply with current OSHA safety standards.

DIVISION 183 – MAGIC OF ELECTRICITY

PREMIUMS FOR DIVISION 183:	1st	2nd	3rd	4th
	\$2.00	\$1.75	\$1.50	\$1.25

CLASS NO.

1. Circuit with Two Batteries & One Light Bulb
2. Compass
3. Electric motor
4. Electromagnet
5. Galvanometer
6. Homemade flashlight
7. Simple switch
8. Any other exhibit not listed above

DIVISION 184 – INVESTIGATING ELECTRICITY

PREMIUMS FOR DIVISION 184:	1st	2nd	3rd	4th
	\$2.00	\$1.75	\$1.50	\$1.25

CLASS NO.

1. Burglar Alarm
2. Circuit Diagrams with Explanation
3. Momentary Switch
4. Parallel Circuit
5. Rocket Launcher
6. Series Circuit
7. Soldered Connection
8. Three-way Switch
9. Any other exhibit not listed above

DIVISION 185 – WIRED FOR POWER

PREMIUMS FOR DIVISION 185:	1st	2nd	3rd	4th
	\$2.50	\$2.25	\$2.00	\$1.50

CLASS NO.

1. Chart showing the electrical usage of appliances
2. Display of light bulbs and the jobs they do best
3. Display of symbols on wires and cables and their meanings
4. Electrical tool and supply kit
5. Poster on how to read an appliance nametag
6. Poster on how to replace a switch
7. Any other exhibit not listed above

DIVISION 186 – WORLD OF ELECTRONICS

PREMIUMS FOR DIVISION 186:

1 st	2 nd	3 rd	4 th
\$3.00	\$2.50	\$2.00	\$1.50

CLASS NO.

1. Display of at least 6 electronic parts and their purpose
2. Display of different kinds of resistors
3. Homemade Capacitor Flasher and Study Circuit
4. Homemade Crystal Radio
5. Homemade Electronic Organ
6. Homemade Photoelectric Controller
7. Homemade Radio Broadcaster
8. Homemade Repulsing Coil to demonstrate magnetic effect
9. Homemade Simple Computer
10. Homemade Simple Microphone
11. Homemade Simple Vacuum Tube Amplifier
12. Homemade Tachometer
13. Homemade Two-Transistor Radio
14. One-transistor Amplifier for use with a Crystal Radio
15. Poster Demonstration on Resistor Color Code
16. Poster showing graph of several cycles of alternating current with description of the meanings of the terms: frequency, polarity and amplitude
17. Any other exhibit not listed above

DIVISION 187 – BEHIND THE SWITCH

PREMIUMS FOR DIVISION 187:

1 st	2 nd	3 rd	4 th
\$2.50	\$2.25	\$2.00	\$1.50

CLASS NO.

1. Any piece of Homemade Solar Equipment
2. Your *Personal Research Results* Book of Ways your Local Power Supplier Supplies our Power
3. Demonstration on How Electricity is Induced in a Conductor by Magnetism
4. Poster or Display on Basic Safety Rules to Follow Around Electric Lines
5. Poster or Display on the Different Sources of Energy Found in your Community
6. Poster or Display on Ways to Save Energy
7. Poster or Display Showing How to Read an Electric Meter
8. Any other exhibit not listed above