

# DEPARTMENT 23 – ELECTRICITY

## Junior Class

SUPERINTENDENTS

Bill Krantz

ASSISTANT SUPERINTENDENTS

Mary Lou Bausch, Debra Krantz, Cailin Bausch

**Judging - 9:00 a.m. Friday**

**No Exhibitor May Enter both Open and Junior Classes.**

**All exhibits must be pre-registered by the fair deadline to exhibit.**

**All exhibits must be in place by 6:00 p.m. on Thursday.**

### PREMIUMS

Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

**CLASS 1** - Open to members Grades 3-4.

Lot No.

1. Circuit board or homemade buzzer (including batteries)
2. Model electric motor
3. Electric question board
4. Compass, built by exhibitor
5. Completed project book
6. Any other low voltage or magnetic device, or other project
7. Any other piece of homemade electrical equipment or display

**CLASS 2** - Open to members Grades 5-6

Lot No.

8. Display showing one of the following: types of fuses, electric cords, wires, or cables
9. Test Lamp
10. Demonstration board with 3-way and 4-way switches
11. Trouble light
12. Light duty or heavy duty extension cord
13. Completed project book
14. Any other piece of homemade electrical equipment or display
15. Exhibit related to meter usage, circuit diagrams and symbols, electrical safety or other aspect of electrical usage

**CLASS 3** - Open to members Grades 7-9

Lot No.

16. Exhibit explaining one or more points of the National Electric Code
17. Exhibit of bulbs, tubes or lighting equipment
18. Homemade outdoor lighting unit
19. Homemade study or table lamp
20. Exhibit graphing your family energy usage for a month
21. Exhibit explaining the information displayed on a motor or appliance nameplate
22. Exhibit of wiring layout of your home
23. Tool kit containing tools and supplies suitable for constructing, installing, or repairing electrical equipment (INCLUDE A CARD DESCRIBING THE PURPOSE AND USE OF AT LEAST 5 ITEMS IN THE TOOL KIT)
24. Exhibit showing the points to consider when purchasing an appliance
25. Any other piece of homemade electrical equipment or display
26. Completed project book

**CLASS 4** - Open to members Grades 10 and over

Lot No.

27. Exhibit showing how diodes operate in a circuit
28. Member assembled circuit or device using a diode or transistor
29. Exhibit demonstrating a "blinky" flasher
30. Any other piece of homemade electrical equipment or display
31. Exhibit, explaining the resistor color code
32. Member assembled circuit or device using a transformer, capacitor or inductor

33. Member assembled circuit or device using an integrated circuit

34. Completed project book