



**ATCP 160.69 – ELECTRICITY –  
DEPARTMENT 23**

**Judging: Friday, 9:00 a.m. –  
Exhibition Hall**

**Adult Superintendent: Owen Johnson**

Exhibition Rules and Instructions

- a) Exhibitors and their families are responsible for reading and complying with the Junior Fair General Rules & Instructions.
- b) Fair Association is not responsible for articles lost/stolen during fair.
- c) All exhibitors are encouraged to be present for judging.
- d) Exhibitors must exhibit in their grade division and no more than 1 entry per lot.
- e) Work to be eligible must have been made since September 1 of the preceding year.
- f) Posters can be no larger than 14"x22", and displays can be no larger than 28"x40".
- g) All exhibits should include identification of grade and number of years in project.

**CLASS A – Grades 3-4**

**Premiums \$ 2.00 \$ 1.75 \$ 1.50 \$ 1.25**

Lot

- 1. Circuit board or homemade buzzer (including batteries)
- 2. Model electric motor
- 3. Electric question board
- 4. Compass, built by exhibitor
- 5. Any other low voltage or magnetic device, or other project
- 6. Exhibit of a concept explored in the project activity guide

**CLASS B – Grades 5-6**

**Premiums \$ 2.00 \$ 1.75 \$ 1.50 \$ 1.25**

Lot

- 10. Display showing one of the following: types of fuses, electric cords, wires, or cables
- 11. Test Lamp

- 12. Demonstration board with 3-way and 4-way switches
- 13. Trouble light
- 14. Light duty or heavy duty extension cord
- 15. Any other piece of homemade electrical equipment
- 16. Exhibit related to meter usage, circuit diagrams and symbols, electrical safety or other aspect of electrical usage

**CLASS C – Grades 7-9**

**Premiums \$ 2.50 \$ 2.25 \$ 2.00 \$ 1.75**

Lot

- 20. Exhibit explaining one or more points of the National Electric Code
- 21. Exhibit of bulbs, tubes or lighting equipment
- 22. Homemade outdoor lighting unit
- 23. Homemade study or table lamp
- 24. Exhibit graphing your family energy usage for a month
- 25. Exhibit explaining the information displayed on a motor or appliance nameplate
- 26. Exhibit of wiring layout of your home
- 27. 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.
- 28. Exhibit showing the points to consider when purchasing an appliance

**CLASS D – Grades 10 and Up**

**Premiums \$ 3.00 \$ 2.75 \$ 2.50 \$ 2.25**

Lot

**Conference Judging**

- 35. Exhibit showing how diodes operate in a circuit
- 36. Member assembled circuit or device using a diode or transistor
- 37. Exhibit demonstrating a "blinky" flasher
- 38. Any other piece of homemade electronic equipment or display
- 39. Exhibit, explaining the resistor color code
- 40. Member assembled circuit or device using a transformer, capacitor or inductor
- 41. Member assembled circuit or device using an integrated circuit.