



Department 23 – Electricity

ATCP 160.69

REGISTRATION: APRIL 20 – MAY 20, 2024

CHECK-IN: SATURDAY, JULY 13, 2023 @ 9 AM TO 1:30 PM

JUDGING: SATURDAY, JULY 13, 2023 @ 9 AM TO 2:00 PM

JUDGING STYLE: FACE-TO-FACE

Lead Superintendents: Owen Johnson, owen.johnson.1986@gmail.com or

Christina Johnson, christinakayjohnson08@gmail.com

Exhibition Rules and Instructions

- a) **Read the General Rules & Instructions** document!!!
- b) Exhibitors must exhibit in their grade division and no more than 1 entry per lot.
- c) Posters can be no larger than 14"x22", and displays can be no larger than 28"x40".
- d) Posters must be consisted of at least 50-75% original work from the exhibitor.
- e) Each entry should have a 3"x5" card which describes:
 - a. Exhibitor grade and number of years in department
 - b. Steps taken to complete this exhibit.
 - c. What have you learned or practiced in completing this exhibit?

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. Any other piece of homemade electrical equipment or display

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 or display
- 16. Exhibit related to meter usage, circuit diagrams and symbols, electrical safety or other aspect of electrical usage

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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
29. Any other piece of homemade electrical equipment or display

CLASS D – Grades 10 and Up

Premiums: \$3.00 \$2.75 \$2.50 \$2.25

Lot

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 electrical 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