



## ATCP 160.69 – ELECTRICITY – DEPARTMENT 23

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

Adult Superintendent: Owen Johnson

### Exhibition Rules and Instructions

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

- Circuit board or homemade buzzer (including batteries)
- Model electric motor
- Electric question board
- Compass, built by exhibitor
- Any other low voltage or magnetic device, or other project
- Poster related to a concept explored in the project activity guide

### CLASS B – Grades 5-6

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

Lot

Conference Judging

- Display showing one of the following: types of fuses, electric cords, wires, or cables
- Test Lamp
- Demonstration board with 3-way and 4-way switches
- Trouble light
- Light duty or heavy duty extension cord
- Any other piece of homemade electrical equipment
- Poster or display 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

- Poster explaining one or more points of the National Electric Code
- Display of bulbs, tubes or lighting equipment
- Homemade outdoor lighting unit
- Homemade study or table lamp
- Poster graphing your family energy usage for a month
- Poster or display explaining the information displayed on a motor or appliance nameplate
- Poster or display of wiring layout of your home
- 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.
- Poster or 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

- Poster or exhibit showing how diodes operate in a circuit
- Member assembled circuit or device using a diode or transistor
- Exhibit demonstrating a "blinky" flasher

4. Any other piece of homemade electronic equipment or display
5. Poster or display explaining the resistor color code
6. Member assembled circuit or device using a transformer, capacitor or inductor
7. Member assembled circuit or device using an integrated circuit