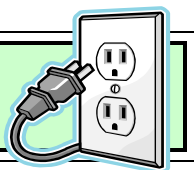


DEPARTMENT 23 JUNIOR ELECTRICITY



Superintendent – Dustin Heitkamp

Premiums:

1st \$2.00 2nd \$1.75 3rd 1.50 4th \$1.25

CLASS A – Unit I- MAGIC OF ELECTRICITY – Limited only to exhibitors enrolled in Electricity I or comparable project.

Item No.

1. Homemade flashlight
2. Simple switch
3. Circuit with two batteries and one light bulb
4. Compass
5. Electromagnet
6. Galvanometer
7. Electric motor
8. Electric question board
9. Steady hand tester
10. Scrapbook of experiments
11. Any other, attach a 3"x5" card of explanation

Premiums:

1st \$2.00 2nd \$1.75 3rd \$1.50 4th \$1.25

CLASS B – Unit 2-INVESTIGATING ELECTRICITY – Limited only to exhibitors enrolled in Electricity II or comparable project.

Item No.

1. Circuit diagrams with explanation
2. Series circuit
3. Parallel circuit
4. Momentary switch
5. Three-way switch
6. Soldered connection
7. Rocket launcher
8. Burglar alarm
9. A simple homemade buzzer
10. Scrapbook of experiments
11. Any other, attach a 3"x5" card of explanation

Premiums:

1st \$2.50 2nd \$2.25 3rd \$2.00 4th \$1.75

CLASS C – Unit 3-WIRED FOR POWER – Limited only to exhibitors enrolled in Electricity III or comparable project.

Item No.

1. Electrical tool and supply kit
2. Display of symbols on wires and cables and their meanings
3. Display of light bulbs and the jobs they do best
4. Poster on how to ready an appliance nametag
5. Chart showing the electrical usage of appliances
6. Poster on how to replace a switch
7. Old lamp that has been rewired, attach a 3"x5" card explaining how it was done.
8. A chart of the rooms in your house recording the results of your tests for grounded & ungrounded receptacles
9. Display of electric wires commonly used in home or farm wiring. Explain how each is used.
10. Any other exhibit, attach a 3"x5" card of explanation

Premiums:

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

CLASS D – Unit 4-ENTERING ELECTRONICS – Open to members enrolled in Electricity, Unit IV or comparable project.

Item No.

1. Display of electronic parts (labeled)
2. A circuit with a diode, explain what a diode does
3. A circuit with a transistor, explain what a transistor does
4. A circuit with a light emitting diode (LED) explain what a LED is
5. A circuit with LED flasher

6. Photocell alarm
7. Light meter
8. Silicon controlled rectifier (SCR) intruder alarm, explain how it works
9. 6-8 watt amplifier with integrated circuit
10. Scrapbook record of electrical improvements around your home and/or farm
11. Any other exhibit, attach a 3"x5" card explaining what it is