Department 123 – Electricity

Face-to-Face Judging on Tuesday Noon - 6 PM

Entry Information

- Open to youth enrolled in the 4-H electricity project or youth of other groups doing equivalent work.
- No more than 5 entries per exhibitor. 1 per lot.

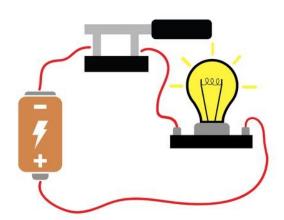
Exhibit Information

- See poster rules, if applicable.
- Displays and panels must not exceed 36" x 48".
- Unless otherwise noted, "exhibit" may be a display, poster, panel, article, or notebook.
- Entries not made according to project requirements will be marked down at least 1 placing.'
- No kits or pre-cut articles allowed.
- Batteries can be removed from exhibits after judging is completed.
- Premiums: \$2.00 \$1.75 \$1.50 \$1.25

CLASS A – Electricity

Lot Numbers

- 1. Article which demonstrates the principles of an electric motor (securely attach a 3x5 card explaining how it works and what it demonstrates)
- 2. Display of electric cords, wires, or cables
- 3. Display of light bulbs and uses
- 4. Display showing a homemade fuse at work
- 5. Display showing types of fuses
- 6. Electric buzzer
- 7. Electromagnet
- 8. Exhibit demonstrating or showing closed circuit, parallel wiring, and /or series wiring (diagrams must use proper symbols)
- 9. Exhibit explaining electrical safety at home, farm, or around power lines, etc.
- 10. Exhibit showing electrical tools and supplies labeled with explanation of use
- 11. Flashlight that you made from a bulb, wire, and a battery
- 12. Homemade electric motor
- 13. Homemade extension cord (light or heavyduty)
- 14. Homemade lamp or lighting unit
- 15. Homemade light meter
- 16. Homemade rocket launcher
- 17. Homemade solar equipment any kind
- 18. Homemade test lamp
- 19. Model telegraph station
- 20. Panel exhibit of small electric motor (take apart an electric motor display on panel, label, & describe)



- 21. Poster with chart showing how much electricity your family uses with meter readings every day for a week and then once a week for a total of 4 weeks explain ways your family conserves energy
- 22. Poster with chart showing results of at least 8 objects tested for resistance value and whether they are conductors or insulators rank by resistance level
- Project using diodes, transistors, and/or capacitors
- 24. Project using photo cell
- 25. Question board
- 26. Rewired (new cord and plug) 110-volt item example: lamp, small appliance, etc.
- 27. Scrapbook of low voltage electricity experiments
- 28. Steady hand tester
- 29. Working exhibit showing proper wiring for switches (2-way, 3-way, or 4-way), plugs, fixtures, and/or outlets (standard or GFI)
- 30. Any other exhibit not listed
- 31. Any other exhibit using electronic components