

2024

JUNIOR FAIR ELECTRICITY

Department 23 – Superintendent –
Email:

1. Judging Day (Individual Conference Judging) – **Monday, August 19**, as follows: 10am to 2pm and 2:30pm to 6pm in the Exhibition Building.
2. Release Day – **Sunday, August 25**, between 6pm and 7:30pm. Vehicle access begins at 6:30pm. **Exhibits released prior to release date and time will not receive premiums.**
3. No changes will be allowed after registration forms are submitted.
4. All posters must be 14"x22".
5. **Four (4) entries or exhibits per class per exhibitor.**
6. **One (1) entry per exhibitor per lot number.**
7. Entry tags must be stapled to the lower left hand corner. Identify all "any other" exhibit on entry tag and registration form.
8. Entry classes are open to 4-H members enrolled in the Electricity project or other youth groups doing equivalent work.
9. Articles eligible for entry must have been made during this past year.
10. Display areas can be no larger than 2'x4'. All models should be mounted on an appropriate sized base or platform.

CLASS A: MAGIC OF ELECTRICITY – Grades 3-5

Premiums for Lot Numbers 100-111 are as Follows:

Blue Ribbon - \$1.75 Red Ribbon - \$1.50 White Ribbon - \$1.25 Pink Ribbon - \$1.00

Lot Numbers:

- | | |
|---|--|
| 100. Circuit board. | 107. Display of circuit with two batteries and one light bulb. |
| 101. Homemade Buzzer. | 108. Display of compass. |
| 102. Display of a working electric motor. | 109. Display of Electromagnet. |
| 103. Scrap of experiments. | 110. Display of Galvanometer. |
| 104. Electric question board. | 111. Any other low voltage or magnetic device, identify. |
| 105. Homemade Flashlight | |
| 106. Display of simple switch circuit. | |

CLASS B: INVESTIGATING ELECTRICITY – Grades 6-7

Premiums for Lot Numbers 112-124 are as Follows:

Blue Ribbon - \$2.00 Red Ribbon - \$1.75 White Ribbon - \$1.50 Pink Ribbon - \$1.25

Lot Numbers:

- | | |
|---|---|
| 112. Display showing types of fuses. | 119. Display of series circuit. |
| 113. Display of electric cords, wires, or cables. | 120. Display of parallel circuit. |
| 114. Demonstration board with 3-way and 4-way switches. | 121. Three-way Switch. |
| 115. Trouble light. | 122. Display of soldered connection/rat tail connection/twisted connection. |
| 116. Light-duty extension cord. | 123. Burglar Alarm. |
| 117. Heavy-duty extension cord. | 124. Any other piece of homemade electrical equipment, identify. |
| 118. Poster – Circuit diagrams with explanation. | |

CLASS C: WIRED FOR POWER – Grades 8-9

Premiums for Lot Numbers 125-133 are as Follows:

Blue Ribbon - \$2.25 Red Ribbon - \$2.00 White Ribbon - \$1.75 Pink Ribbon - \$1.50

Lot Numbers:

- | | |
|---|---|
| 125. Display of bulbs, tubes, or light equipment and the jobs they do best. | 129. Display of electrical tool and supply kit. |
| 126. Plans or photographs showing lighting improvements made at home. | 130. Display of symbols, types, and sizes of wires and cables and their meanings. |
| 127. Table or wall study lamp. | 131. Chart showing the electrical usage of appliances. |
| 128. Homemade lamp or lighting unit. | 132. Poster on how to replace a switch. |
| | 133. Any other display related to this unit, identify. |

2024

CLASS D: ENTERING ELECTRONICS – Grades 10-13

Premiums for Lot Numbers 134-150 are as Follows:

Blue Ribbon - \$2.50

Red Ribbon - \$2.25

White Ribbon - \$2.00

Pink Ribbon - \$1.50

Lot Numbers:

134. Display showing motor types, operation, or maintenance.
135. Wiring layout of your home or other building.
136. Any piece of homemade electrical equipment.
137. Display or plan of an electrical control system.
138. Any piece of homemade solar equipment.
139. Diagram of an electric meter with description of parts and their purposes.
140. Diagram or photographs with description of electrical improvements made at home.
141. Diagram or photographs of electrical or electronic equipment installed at home.
142. Display related to home appliances, wattage use, and conservation practices.
143. Display of Electronic Parts.
144. Display operating with a diode/transistor/light emitting diode (LED).
145. Display of an LED flasher.
146. Photocell Alarm.
147. Light Meter.
148. Silicon Controlled Rectifier (SCR) Intruder Alarm.
149. 6-8 watt amplifier with integrated circuit.
150. Any other display related to this unit, identify.