

Electric (State Fair Entry)

- Enroll in 4-H, pay annual program fee, and enter project in V2.4online by May 15
- Enter exhibit(s) in FairEntry by last business day in June, which is June 30, 2021. See page 7 Rule #23.
- Exhibits checked-in Saturday, July 24 from 9am-12 noon, judging starts at 12:30 pm

An Allen County 4-H General Record Sheet must be completed, signed and turned in at the beginning of check-in for All Exhibit Building Projects. It is recommended that a note be attached to your exhibit explaining what was done, why, and intended use for the item for all divisions.

All posters, notebooks, and display boards must include a reference list indicating where information was obtained, giving credit to the original author when using outside sources, to complete the 4-H member's exhibit. This reference list should/might include web site links, people and professionals interviewed, books, magazines, etc. It is recommended this reference list be attached to the back of a poster or display board, be the last page of a notebook, or included as part of the display visible to the public. A judge is not to discredit an exhibit for the manner in which references are listed.

Level 1 (Grade 3): Complete the activities as instructed in the manual.

Exhibit one article of choice displaying proper wiring techniques, made during the current 4-H program year. It must demonstrate a minimum of five (5) or more of the appropriate level of "Skills to be Attained" items as outlined in the "4-H Electric and Electronic Skills & Knowledge Chart". A completed copy of the "Exhibit Skills & Knowledge Sheet" must accompany the project. Possible Projects: • Circuit board – 6" by 6" of Series/Parallel Circuit • Electromagnet • Galvanometer • Poster board (22" by 28") • Display (appropriately sized for displayed equipment) • Notebook/Report that covers any topic that is in the National 4-H Electric Curriculum Electricity Excitement Book 1 or Investigating Electricity Book 2, Purdue Extension 4-H Youth Development Electric project page Level 1 activities/project sheets, or from the appropriate level of the Skills & Knowledge Chart.

Level 2 (Grade 4): Exhibit one article of choice displaying proper wiring techniques, made during the current 4-H program year. It must demonstrate a minimum of five (5) or more of the appropriate level of "Skills to be Attained" items as outlined in the "4-H Electric and Electronic Skills & Knowledge Chart". A completed copy of the "Exhibit Skills & Knowledge Sheet" must accompany the project. Possible Projects: • Magnetic Powered Shake Flashlight – with display • Circuit board – 6" by 6" of Series/Parallel Circuit (with modifications if exhibited in Level 1) • Electromagnet • Galvanometer • Electric Motor • Poster board (22" by 28") • Display (appropriately sized for displayed equipment) • Notebook/Report that covers any topic that is in the National 4-H Electric Curriculum Electricity Excitement Book 1 or Investigating Electricity Book 2, Purdue Extension 4-H Youth Development Electric project page Level 2 activities/project sheets, or from the appropriate level of the Skills & Knowledge Chart.

Level 3 (Grade 5): Exhibit one article of choice displaying proper wiring techniques, made during the current 4-H program year. It must demonstrate a minimum of five (5) or more of the appropriate level of "Skills to be Attained" items as outlined in the "4-H Electric and Electronic Skills & Knowledge Chart". A completed copy of the "Exhibit Skills & Knowledge Sheet" must accompany the project. Possible Projects: • Wiring Project – (ie. extension cord, trouble light, wire sizes and uses, plug configurations, test equipment, etc.) • Electrical tool and supply kit • Poster board (22" by 28") • Display (appropriately sized for displayed equipment) • Notebook/Report that covers any topic that is in the National 4-H Electric Curriculum Wired for Power Book 3, Purdue Extension 4-H Youth Development Electric project page Level 3 activities/project sheets, or from the appropriate level of the Skills & Knowledge Chart.

Level 4 (Grade 6): Exhibit one article of choice displaying proper wiring techniques, made during the current 4-H program year. It must demonstrate a minimum of five (5) or more of the appropriate level of "Skills to be Attained" items as outlined in the "4-H Electric and Electronic Skills & Knowledge Chart". A completed copy of the "Exhibit Skills & Knowledge Sheet" must accompany the project. Possible Projects: • Wiring – Wire a lamp. The lamp can be a re-wired lamp or one that is built new. • Electrical tool and supply kit • Poster board (22" by 28") • Display (appropriately sized for displayed equipment) • Notebook/Report that covers any topic that is in the National 4-H Electric Curriculum Wired for Power Book 3, Purdue Extension 4-H Youth Development Electric project page Level 4 activities/project sheets, or from the appropriate level of the Skills & Knowledge Chart.

Level 5 (Grade 7-12): Exhibit one article of choice, displaying proper wiring techniques, made during the current 4-H program year that demonstrates a minimum of five (5) or more of the appropriate level of "Skills to be Attained" items as outlined in the "4-H Electric and Electronic Skills & Knowledge Chart". A completed copy of the "Exhibit Skills & Knowledge Sheet" must accompany the project. Possible Projects: • Equipment Wiring – including but not limited to: parts identification, appliance repair, lamps and other lighting, equipment wiring, control system, security system, topic that covers safety, motors/generators, electric heating, heat pumps, AC, water heaters, and other electric equipment. • Home Wiring – included by not limited to any circuits found in the wiring of a house or "barn", service entrance, switching, receptacles, generator transfer circuit, safety, electrical math, and others. • Electronic Equipment – Any project or kit containing transistors or integrated circuits or vacuum tubes such as radio, TV, computer, robot, cell phone, and others. • Poster board (22" by 28") • Display (appropriately sized for displayed equipment) • Notebook/Report that covers any topic that is in the National 4-H Electric Curriculum Entering Electronics, Purdue Extension 4-H Youth Development Electric project page Level 5 activities/project sheets, or from the appropriate level of the Skills & Knowledge Chart. • Video Presentation Create a video showing the work accomplished and skills learned. This video should include the same type of information as required in written notebook listed above. This video is to be no more than ten minutes in length and formatted as MP4 and submitted on a thumb drive. This video can also be uploaded to a YouTube account with the video being made public and the link submitted for evaluation.

Display boards should be appropriately sized for the displayed equipment.

Attach to the exhibit any kit instructions or book/manuals if you feel they will help explain the operation of the exhibit. This may be important for advanced electronic projects. If the exhibit is not a poster, attach a note explaining how it is to be used.

2/2021