

4-H ELECTRIC SCORE CARD

NAME_____ CLUB_____

Ribbon Placing (circle one): Purple Blue Red White

Scoring: 1 = Excellent 2 = Good 3 = Needs Improvement 4 = Not Applicable

Judging Criteria	1	2	3	4
Wires are wrapped around screws in proper direction.				
All strands of stranded wire are under screw head.				
All screws and mechanical connections are properly tightened.				
Project uses proper wire size and type for the particular load.				
Weatherproof devices and connectors are used if project is used outside or in a damp location.				
Wires in plugs, connector bodies, receptacles, and switches are properly covered to prevent contact with bare wires.				
Wire-to-wire connections are soldered or have proper size wire-nut or squeezed connector.				
Polarization and color coding of wiring is followed.				
Wiring is properly protected from all sharp edges.				
All electrical devices and metal components are grounded.				
All material and devices are U.L. approved.				
Overcurrent protection is used as required.				
Safe and appropriate for intended purpose.				
Workmanship and neatness.				
Appropriate for age and experience.				

Comments:

SUGGESTIONS FOR JUDGING KANSAS 4-H ELECTRIC PROJECT EXHIBITS AT COMMUNITY, COUNTY, AND STATE FAIRS

1. The General Regulations and special rules as given in the Kansas State Fair 4-H Premium List should be followed for all 4-H electric exhibit showing and judging.
2. All exhibits should be operable, if there is action involved, so that the judge can check their performance. If instructions are needed to operate the exhibit, they should be attached to the equipment.
3. The specifications set forth in the following standards have been established by the 4-H Electric Judging Standards Committee and will be followed for the judging of all 4-H electric exhibits at the Mid America Fair at Topeka and the Kansas State Fair at Hutchinson. These standards are not necessarily substantiated by the National Electrical Code.

Standards for Judging 4-H Electric Exhibits

I. General Exhibits

- A. **MATERIALS** - All electric exhibits must be constructed of approved materials.
- B. **STRANDED WIRE** - All stranded wire ends on plugs, sockets, etc., must be soldered.
- C. **EXTENSION CORDS** - All extension cords must have an explanation of intended use included with the exhibit. (Refer to National Electrical Code for limitations as to wire size, length, grounded requirements, etc.)
- D. **CONVENIENCE OUTLETS** - All applications involving convenience outlets must be of the three-wire grounded type.
- E. **TYPE OF USE**
 1. All items for outdoor use must be weatherproof and grounded.
 2. All portable equipment for hazardous use must be grounded.
- F. **PLUGS**
 1. In the attachment of stranded wires to plugs, sockets, etc., an Underwriters Knot will not be required if other means is provided to eliminate pulling strain on the screws of the device.
 2. Fiber discs may be used for a finished appearance but are not required.
 3. Factory-molded type plugs are not acceptable.
 4. Unbreakable plugs are preferred. (Bakelite type acceptable on lamps.)
 5. Plugs without screws are not acceptable.
 6. Plugs with a grasp area are preferred. (This protects strain on the cord when inserting or withdrawing plug from convenience outlet.)