

ELECTRICITY



Illinois Extension
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

ELECTRICITY 1, 2, 3, 4

Name _____

County _____ Club _____

Circle Project Level: 1 2 3 4

JUDGES: Please identify a numerical score on a scale of 1-10 for each element on the sheet. **1= needs improvement, 10= exceeds criteria.** At the county level, an alternative scoring method can be used: Needs Improvement “-“, Meets Expectations “X”, and Exceeds Expectations “+”.

Judging Criteria

Project Knowledge	Score
General knowledge of electricity project	
Exhibit appropriate for member age & level	
Uses battery power for Level 1 & 2; 120 V for Level 3 Uses U.L. approved electrical material/equipment. No paper clips, thumbtacks, cardboard, or brads	
Use of wire – Proper wire type and size for the particular load; proper fastening techniques at terminals/connections; properly colored wires (i.e. black/red as hot, white as neutral; etc.)	
Terminals/Connections – (as applicable) <ul style="list-style-type: none"> • Proper fastening techniques and locations; • Use of weatherproof or watertight equipment and connections for any project to be used outside or in damp areas; etc. • All terminals and connections using 120 household voltage are enclosed (such as dead-front plugs and receptacles, all connects to be inside electrical boxes) • AC connection choices include: wire to wire connections must be soldered and taped, or use proper size wire nut, or use a squeezed connector. 	
Score on Level 1 Only – basic knowledge of simple switch, circuit, electromagnet, galvanometer, and/or electric motor	
Score on Level 2 Only – basic knowledge of parallel and series circuits; 3-way or 4-way switches; or electrical device displayed	
Score on Level 3 Only – Incorporates AC over-current protections (fuses or circuit breakers) where needed; Ground: All electrical materials, parts, and equipment that are not intended to carry current are grounded by use of a ground wire (connected to a threaded ground screw or wiring clip or grounding lug)	

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Score on Level 4 Only – explain the use of any advanced electrical solid-state system in your project beyond Level 3. Examples are use of diodes, LED's, transistors, resistors, capacitors, or photocells.	
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Explanation of Project Exhibit	Score
Goal of project exhibit and skills learned	
Self-evaluation of project, including time spent on project and ability to explain decisions made or results shown	

Exhibit Presentation	Scores
Neat appearance	
Follows exhibit requirements	

TOTAL SCORE (Points possible: 100): _____

AWARD RECEIVED (if applicable): _____

COMMENTS: