

ELECTRICITY

ELECTRICITY 1, 2, 3, or 4



Illinois Extension
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Name _____

County _____ Project Level 1 | 2 | 3 | 4 _____

JUDGES: Please identify a numerical score on a scale of 1-10 for each element on the sheet.

Judging Criteria	SCORE 1= needs improvement 10= exceeds criteria
Project Knowledge	
General knowledge of electricity project	
Exhibit appropriate for member age & level	
Uses battery power for Level 1 & 2; 120V for Level 3. Uses U.L. approved electrical material/equipment. No paperclips, 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) ♦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 I Only – basic knowledge of simple switch, circuit, electromagnet, galvanometer, and/or electric motor	
Score on Level II Only – basic knowledge of parallel and series circuits; 3-way or 4-way switches; or electrical device displayed	
Score on Level III Only – Incorporates AC over-current protection (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 systems in your project beyond Level 3. Examples are use of diodes, LED's, transistors, resistors, capacitors, or photocells.	
Explanation of Project Exhibit	
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	
Neat appearance and exhibit presented in an interesting way	
Follows exhibit requirements	
TOTAL SCORE – 130 points possible	
COMMENTS	
AWARD RECEIVED <i>(if applicable)</i>	