

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	
<ul style="list-style-type: none">General knowledge of electricity project	
<ul style="list-style-type: none">Exhibit appropriate for member age & level	
<ul style="list-style-type: none">Uses battery power for Level 1 & 2; 120V for Level 3. Uses U.L. approved electrical material/equipment. No paperclips, thumbtacks, cardboard, or brads.	
<ul style="list-style-type: none">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.)	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Score on Level I Only – basic knowledge of simple switch, circuit, electromagnet, galvanometer, and/or electric motor	
<ul style="list-style-type: none">Score on Level II Only – basic knowledge of parallel and series circuits; 3-way or 4-way switches; or electrical device displayed	
<ul style="list-style-type: none">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)	

COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES

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<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Goal of project exhibit and skills learned 	
<ul style="list-style-type: none"> Self-evaluation of project, including time spent on project and ability to explain decisions made or results shown 	
Exhibit Presentation	
<ul style="list-style-type: none"> Neat appearance and exhibit presented in an interesting way 	
<ul style="list-style-type: none"> Follows exhibit requirements 	
TOTAL SCORE – 130 points possible	
COMMENTS	
AWARD RECEIVED <i>(if applicable)</i>	