

ELECTRICITY

ELECTRICITY 1, 2, 3



Name _____

Project Level 1 | 2 | 3 _____

JUDGES: Please check the appropriate box for each element on the sheet.

Judging Criteria	Minimally Meets Criteria	Meets Criteria	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"> • Wire wrapping around the screw in the direction the screw tightens 			
<ul style="list-style-type: none"> • When using stranded wires, all strands are under the screw head 			
<ul style="list-style-type: none"> • Uses proper wire type and size for the particular load the project requires 			
<ul style="list-style-type: none"> • Use of weatherproof or watertight equipment and connections for any project to be used outside or in damp areas 			
<ul style="list-style-type: none"> • All terminals and connections using 120 household voltage are enclosed (such as dead-front plugs and receptacles, all connects to be inside electrical boxes) 			
<ul style="list-style-type: none"> • AC connection choices include: <ul style="list-style-type: none"> ○ 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"> • Wiring is protected from all sharp edges by effective means (such as grommets, silicone seal, etc.) 			
<ul style="list-style-type: none"> • 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) 			
<ul style="list-style-type: none"> • Uses U.L. approved electrical material / equipment 			
<ul style="list-style-type: none"> • Incorporates over-current protection (fuses or circuit breakers) where needed 			
<ul style="list-style-type: none"> • AC conductors are properly color-coded using black or red as hot wires, white as neutral, and green or bare copper as grounding. 			

<ul style="list-style-type: none"> • Uses battery power for Level 1 & 2; 120V for Level 3 			
Explanation of Project Exhibit			
<ul style="list-style-type: none"> • Goal of project exhibit 			
<ul style="list-style-type: none"> • Ability to explain decisions made or results shown 			
<ul style="list-style-type: none"> • Self-evaluation of project, including time spent on project area 			
<ul style="list-style-type: none"> • Skills learned and plans for continued study 			
Exhibit Presentation			
<ul style="list-style-type: none"> • Neat appearance 			
<ul style="list-style-type: none"> • Follows exhibit requirements 			
<ul style="list-style-type: none"> • Presents information in interesting way 			
AWARD RECEIVED			
COMMENTS			

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