### Categories to Judge Projects

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<th>Score</th>
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| 1     | **Overall workmanship and neatness of the project**  
(cleanliness, neat construction, labeled appropriately, etc)                                                                                                                                                                                                                                                                                                                                                   |       |
| 2     | **Is the project appropriate for the 4-H member age and years of involvement in project?**  
(projects may be too simple, i.e. 15 year old with 3 years in project entering an extension cord or too complex, i.e. a 10 year old with a project requiring lots of connectors and fasteners)                                                                                                                                                                                                                                         |       |
| 3     | **Is the project entered into the fair in working order?**  
(10 points if yes, 0 if not working when being judged)                                                                                                                                                                                                                                                                                                                                                           |       |
| 4     | **Are there any non-electric safety concerns with the project?**  
(unstable lamp, exposed moving parts, sharp edges, lamp base unprotected, etc)                                                                                                                                                                                                                                                                                                                                |       |
| 5     | **Is the project electrically safe to operate?**  
(proper grounding, no exposed wires, over current protection, waterproof if outdoor usage, etc)                                                                                                                                                                                                                                                                                                                  |       |
| 6     | **Are the appropriate national code guidelines followed?**  
(wires color coded properly, waterproof devices if required, etc)                                                                                                                                                                                                                                                                                                                  |       |
| 7     | **Are materials and devices U.L. or equivalent lab approved?**                                                                                                                                                                                                                                                                                                                                                      |       |
| 8     | **Are proper materials used?**  
(proper connectors, wire size, load sizes, etc)                                                                                                                                                                                                                                                                                                                                                                   |       |
| 9     | **Are the wires properly fastened to terminals?**  
(wrap proper direction, screws tightened, proper solder joints, etc)                                                                                                                                                                                                                                                                                    |       |
| 10    | **Is a clear understandable wiring diagram available to follow circuitries?**  
(10 yes – neat and understandable: 5 yes – but not easy to understand: 0 no)                                                                                                                                                                                                                                                                               |       |
|       | **Up to 5 bonus points may be awarded for submission of a project/construction report or up to 10 points including a superior project interview.**                                                                                                                                                                                                                                                                  |       |

**Judge’s Comments:**