***Electric House Project***

**Project Due Date: Monday, January 27, 2014**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_ Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Electrical Engineer (4)** | **Apprentice (3)** | **Still Studying (2)** | **Electrical and Safety Hazard (1)** |
| **The Wiring x2** | **Series Circuit:** two lights in parallel with each other and in series with two other lights (four lights total) with a switch in one room that turns lights off/on.  **Parallel circuit**: three lights in parallel with a switch in one room  **Outside Light**: Includes a single outside light with a switch (or a similar circuit) | **Series Circuit:** The building has a regular **series circuit** of 4 lights running in series. Includes a functioning switch that turns lights off/on.  **Parallel circuit**: three lights in parallel with a switch in one room  **Outside Light**: Includes a single outside light with a switch (or similar) | **Series Circuit:** Building has a regular series circuit with less then 4 lights. Switch either doesn’t function properly or only turns on some lights.  **Parallel circuit**: less then 3 lights in parallel. Switch does not function properly.  **Outside light** (or similar) is missing or not functioning. | **Series Circuit:** No evidence of a series circuit.  **Parallel circuit**: No evidence of a parallel circuit.  **Outside light:** No evidence of an outside light (or something similar) |
| **The Circuit Drawings x2** | All 3 circuits are represented in one single drawing.  The drawing includes all proper symbols.  The drawing is free of any mistakes | All 3 circuits are represented in 2 or 3 separate drawings.  The drawing(s) include most symbols.  The drawing has 1-2 mistakes. | All 3 circuits are represented in 3 separate drawings  The drawing(s) includes some symbols.  The drawing has 3-4 mistakes. | Drawings are incomplete |
| **The Building** | Has at least two rooms.  Building is an appropriate size.  Have clear and detailed plans that show diagrams of circuits as well as a drawn plan for the building. | Has at least two rooms.  Size is too large or too small.  Have a plan for the circuits and house but they lack detail | Has only one room.  Size is too large or too small  Have a very basic plan, but is incomplete or unclear | No evidence of planning |
| **The Decorating** | Inside surfaces are **neatly** covered and decorated.  Outside of building is **purposefully** covered and should match the purpose of the building.  3D objects are present in all rooms.  Close attention to details are clearly shown. | Inside surfaces are covered and decorated.  Outside of building is somewhat purposefully covered and should match the purpose of the building.  3D objects are present in some rooms.  Attention to details are somewhat shown. | Inside surfaces are somewhat covered but messy.  Outside of building is not purposefully covered  3D objects are missing or don’t serve a purpose.  More effort could have been put into the details. | Inside surfaces are not covered and messy  Outside of building is not covered at all  There are no 3D objects in the rooms  Little or no effort has been put into the details. |