

Wiring a House Project - Challenge

Challenge: Your job is to create a four room house out of a cardboard box and wire it so that it has working lights. Each room must have at least ONE switch that can turn the lights in that room on and off. Once you have completed the wiring of the house, you may include decorations and furnishings as you choose.

Grading:

- Complete diagram of wiring _____/ 5 pts
- Batteries located outside of the house in one set location _____/ 3 pts
- Neat wiring job _____/ 4 pts
- Room Lights & Switches _____/ 10 pts
 - Room 1
 - Light _____/ 1 pt
 - Switch _____/ 1 pt
 - Room 2
 - Light _____/ 1 pt
 - Switch _____/ 1 pt
 - Room 3
 - Light _____/ 1 pt
 - Switch _____/ 1 pt
 - Room 4
 - Light _____/ 1 pt
 - Switch _____/ 1 pt
 - 5th Light & Switch _____/ 2 pts
 - Additional Lighting (extra credit possible)
 - Lights _____ x 1 pt = _____
 - Switches _____ x 1 pt = _____
- Parallel circuit used with lights on individual switches (only 2 batteries) _____/ 3 pts
- House Décor (Pick 3 of the 4 categories below) _____/ 6 pts.
 - Furniture (must be made) _____/2 pts
 - Walls – painted or wall paper _____/2 pts
 - Flooring _____/2 pts
 - Other: _____/2 pts (extra credit possible)
- Overall Effort & Creativity _____/ 4 pts

Total Points _____/ 35 pts.