***Electric House Project***

For this project, you will construct and wire a model house according to the requirements below:

**A. The Building**

Construct your building in any way you like, *as long as it meets these criteria*:

* has two rooms connected by a doorway or passage
* has walls at least 8 cm in height
* your house must fit on the cardboard foundation provided by your teacher

**B. Decorating**

Your building is to be decorated neatly and:

* should reflect the purpose of the room (i.e. a refrigerator should not be in a bedroom)
* A minimum of two 3D objects (tables, chairs, beds, etc) must be present in each room
* *you may* ***not*** *use premade furniture, toys, people, Legos, etc.* **Everything must be made.**

**C. The Wiring**

To earn *full credit*, each circuit below must be present and working:

1. A series circuit room: four lights with a switch in one room
2. A parallel circuit room: three lights in parallel with a switch in one room
3. A single outside light with a switch

Specifics:

* Switches canbe made from brads and paper clips.
* Your house will be powered by a 9V battery.
* Each circuit must be able to work independently from the other but both must be able to be on at the same time.
* Insulated wire and lights from holiday lights will be provided.

**D. The Circuit Diagram**

You must provide a diagram for the complete circuitry in your building. It must:

* be labeled and be complete including all electrical parts for each circuit
* use accurate circuit symbols
* be neat & drawn with a straight edge ruler

**E. Roles**

Each group member will have a primary role:

* Project Manager (delegates responsibilities and manages time)
* Builder (in charge of construction of project)
* Designer (in charge of decorating)
* Recorder (draws circuit diagrams, submits paperwork

**F. Participation**

You will be rated by each of your teammates using the following checklist:

