

Name: _____

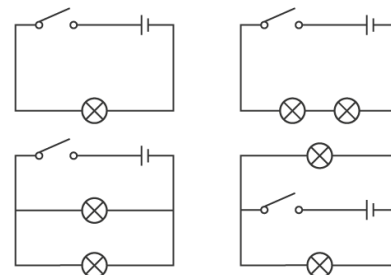
Wiring a House Challenge



Task: You will be wiring THREE rooms in a house using series & parallel circuits.

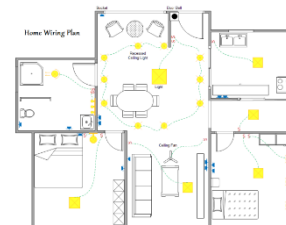
Guidelines:

- You will set up your house in GIZMO Circuit Builder first **THEN** build it using the following materials:
 - Lightbulbs
 - 1 switch to shutoff lights from all the rooms
 - Alligator clip wires
 - Power Pack



House Requirements:

- **SWITCH** - if you turn the switch OFF, **ALL** the lights in the entire house turn off
- **ROOM 1** - if you remove one light, all the lights in that room turn off but the other house lights stay on.
- **ROOM 2** - if you remove one light, the other lights in that room stay on and the rest of the house stay on
- **ROOM 3** - 1 light is brighter than the others in the room
- **ALL ROOMS** - must have a minimum of 3 lights



Rubric:

Criteria	Mark
SWITCH - if you turn the switch OFF, all the lights turn off	0 1
ROOM 1 - if you remove one light, all the lights in that room turn off but all other house lights stay on.	0 1 2
ROOM 2 - if you remove one light, the other lights in that room stay on and the rest of the house stay on	0 1 2
ROOM 3 - 1 light is brighter than the others in the room	0 1 2
ALL ROOMS - must have a minimum of 3 lights	0 1
Stable wiring	0 1 2
TOTAL	/10