

Gameshow Buttons

How to Build It:

Materials:

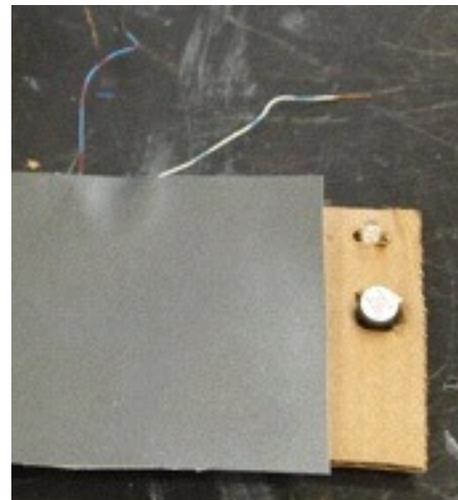
- | | | | |
|-------------------------------------|--|---|--|
| <input type="checkbox"/> Cardboard | <input type="checkbox"/> 9V battery snap | <input type="checkbox"/> Glue stick | <input type="checkbox"/> Soldering iron and solder |
| <input type="checkbox"/> Red LED | <input type="checkbox"/> Tinfoil tape or tinfoil | <input type="checkbox"/> Insulated wire | <input type="checkbox"/> Hot glue |
| <input type="checkbox"/> Buzzer | <input type="checkbox"/> Scissors | <input type="checkbox"/> File folder | <input type="checkbox"/> Markers |
| <input type="checkbox"/> 9V battery | <input type="checkbox"/> X-acto knife | <input type="checkbox"/> Wire cutters | |

Procedure:

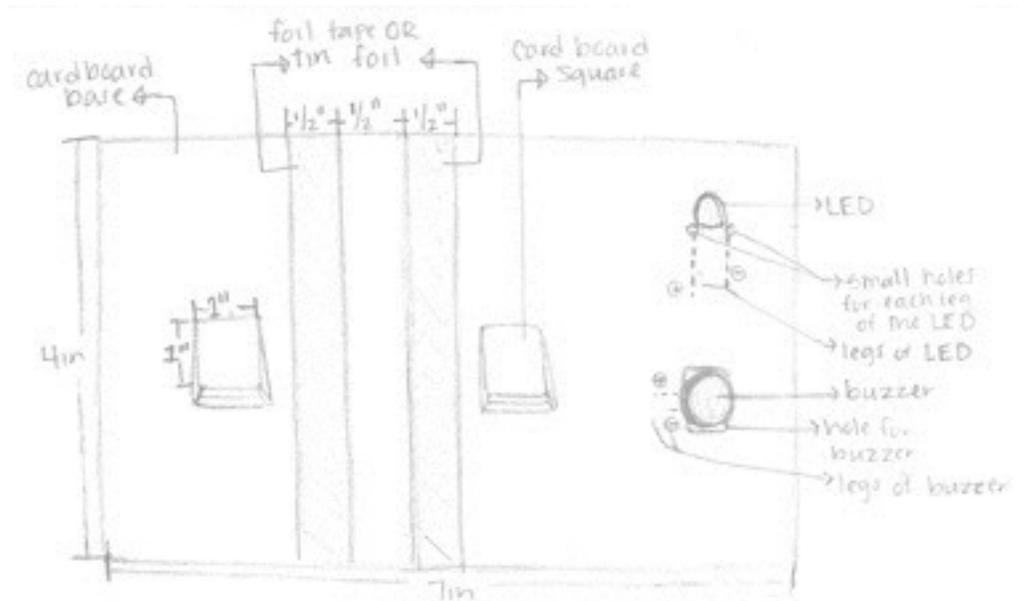
1. Cut four squares of cardboard 1" x 1"
2. Hot glue the cardboard squares into two stacks of two pieces.
3. Hot glue the cardboard stacks onto a larger piece of cardboard 3 inches apart from each other
4. Cut two strips of tinfoil 1" wide by 2.5" long. Place the two strips of tinfoil between the two cardboard square stacks so they are about 1/2" apart.
5. Attach one piece of insulated wire to each of the tinfoil strips making sure to press it down tightly.



6. Cut a rectangle of file folder big enough to go across the stacks of cardboard over the tinfoil strips.
7. Use scissors to cut a piece of tinfoil to fit the piece of file folder and glue the tinfoil onto the file folder.
8. Use hot glue to attach the file folder to the top of the cardboard stacks, tinfoil side down.
9. Poke two holes in the corner of the cardboard base for the LED. Install the LED making sure to mark which leg is positive (the longer leg).
10. Cut a hole in the corner of the cardboard base for the buzzer. Install the buzzer making sure to mark which leg is positive (with the + sign).
11. Solder a piece of insulated wire from the negative leg of the



1. LED to the positive leg of the buzzer.
2. Solder one of the wires from the tinfoil strip to the positive leg of the LED.
3. Solder the black wire on the battery snap to the negative leg of the buzzer.
4. Solder the red wire from the battery snap to the other wire from the tinfoil strips.
5. Secure the wires and batteries to the cardboard base.
6. Press the button to test!
7. Decorate the Gameshow button with a name tent or "Press Here," etc.



How it Works:

The button is a homemade pressure switch built out of two separated conductors, tinfoil in this case. When the two conductors come in contact, the circuit closes and the light and buzzer turn on.

Experiment!

Come up with other types of switches for the game show!
Is there a faster way to enter your answer?