You are now an electrician! As part of our study of electricity, we will be learning how to create an electric circuit. With this training, you will have the opportunity to light up your very own haunted house!

- Students will learn how to make an electric circuit in class using a bulb, metal brads, paper clip, battery, and copper wire.
- Students will demonstrate their understanding of this concept by lighting up a "Halloween House" that they construct/buy, etc.
- Houses may be created from any materials they prefer. Examples include cardboard boxes, doll houses, recycled materials, etc.—whatever they come up with.
- Student will be graded on their ability to create an electric circuit, NOT the house!
- Please do not use more than 9 volts per circuit!
- Halloween Houses are due at school on Monday, October 29th.
- They will be on display in our room (Rm. 33) from 2:45 pm to 3:30 pm on Tuesday, October 30th. Please join us to see the fun and creepy creations!

Students will be responsible for presenting their project to visiting parents and students. They must be able to describe how they created an electrical circuit to me as well. An example of the grading rubric is attached:

<table>
<thead>
<tr>
<th>50 pts</th>
<th>35 pts</th>
<th>15 pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student has a house constructed</td>
<td>Student has a house constructed</td>
<td>No house is connected to the circuit</td>
</tr>
<tr>
<td>Student describes the materials used to make an electrical circuit: copper wire, power source, bulb, and metal clips</td>
<td>Student gives partial description of materials used to make an electrical circuit</td>
<td>No description given</td>
</tr>
<tr>
<td>Student can identify what makes a complete or incomplete circuit, using correct vocabulary: power source, load, switch, conductor, insulator, etc.</td>
<td>Student only uses 1-2 vocabulary word to describe the electrical circuit</td>
<td>Student does not know what makes a circuit complete</td>
</tr>
</tbody>
</table>

Good luck! I am excited to see what you all come up with! Let me know if you have any questions.
This activity will be done by fifth grade students in late October to coincide with Halloween.

**Description of Student Activities:** Students will be need to understand how to create an electrical circuit that will light a light bulb. They will be required to put together the components of a circuit together in a way that will light at least one light bulb using a battery as a source.

**Resources Needed for Success:**
- Batteries
- Wire
- Electrical tape
- Lights
- Paper clips
- Brads
- Individual choice of materials to build a haunted house

**Teacher Role:** Teacher will allow students to build knowledge in the area of making circuit through class activities.

**Scoring Criteria:** Circuits will be graded, but not the haunted house, as long as one is provided.

**Constraints:** We will have approximately two weeks to introduce the concept, explore the concept of how to build it, and then to build their haunted houses at home. They will be allowed to have help from family members. The school will provide wire, brads, paper clips, one light, and one battery to students who need them. Students may add extra circuits, batteries, lights, and switches as they choose.

Here are some diagrams to help in creating your circuit: