Lesson 3 - Part 3 Solar Circuits

Question:
How can I fix a fault in the circuit?

List the Materials at your station and draw a diagram of what you found
**Procedure:**
1. Draw a diagram of the solar circuit as you found it. Label the components.
2. Troubleshoot each component of the circuit - use other materials as needed, including additional solar modules, LEDs or sound/light board.
3. Once your circuit is working correctly, trace around the components on a piece of 11 X 17 paper. Take time to label each component.

**Data/Observations:**
Draw a schematic of the circuit once it is working correctly:

---

**Results:**

---
Conclusion: How can I fix a fault in a solar circuit?

Claim:

Evidence (steps):

Reasoning:
<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLAIM</strong></td>
<td>Makes a complete and accurate claim that answers the guiding question to the investigation.</td>
<td>Makes a claim that is partially incomplete or contains slight misconceptions.</td>
<td>Does not make a claim.</td>
</tr>
<tr>
<td><strong>EVIDENCE</strong></td>
<td>Provides two or more accurate sources of evidence, using labels when necessary, and addresses variables.</td>
<td>Provides one or two sources of evidence.</td>
<td>Does not provide evidence or only provides evidence that does not support the claim.</td>
</tr>
<tr>
<td><strong>REASONING</strong></td>
<td>Demonstrates comparative data that connects to and supports the claim. Uses scientific vocabulary and principles.</td>
<td>Evidence is not comparative although it supports or connects to the claim. Some scientific vocabulary and principles are used, but there may be some misconceptions.</td>
<td>Does not connect or use evidence to support the claim.</td>
</tr>
</tbody>
</table>

**Reflection Questions (What questions do you now have based on this investigation?):**

________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________